

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Latrous, A.R., Mahamdi, R., Touafek, N., Pasquinielli, M.	Conduction Band Offset Effect on the Cu ₂ ZnSnS ₄ Solar Cells Performance	absorber layer, buffer layer, CBO, Cd(1-x)Zn _x S, CZTS, interface, SCAPS-1D, solar cell	45, 6, 431-437	https://doi.org/10.18280/acsm.450601	Latrous, A.R., Mahamdi, R., Touafek, N., Pasquinielli, M. (2021). Conduction band offset effect on the Cu ₂ ZnSnS ₄ solar cells performance. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 6, pp. 431-437. https://doi.org/10.18280/acsm.450601
2	Bougharouat, A., Touka, N., Talbi, D., Baddari, K.	Hydrophobic Properties of CuO Thin Films Obtained by Sol-Gel Spin Coating Technique-Annealing Temperature Effect	CuO thin films, sol-gel spin coating method, surface energy, wettability, adhesive properties	45, 6, 439-445	https://doi.org/10.18280/acsm.450602	Bougharouat, A., Touka, N., Talbi, D., Baddari, K. (2021). Hydrophobic properties of CuO thin films obtained by sol-gel spin coating technique-annealing temperature effect. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 6, pp. 439-445. https://doi.org/10.18280/acsm.450602
3	Aidoud, A., Bencheikh, M., Khaldi, N., Herga I.M.A.	Mortar Based on Dune Sand and Substitute Wood Sawdust: Physico-Mechanical Characterization and Relationship Between Properties in Young Age	sawdust, mortar, absorption, porosity, resistance	45, 6, 447-453	https://doi.org/10.18280/acsm.450603	Aidoud, A., Bencheikh, M., Khaldi, N., Herga I.M.A. (2021). Mortar based on dune sand and substitute wood sawdust: Physico-mechanical characterization and relationship between properties in young age. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 6, pp. 447-453. https://doi.org/10.18280/acsm.450603
4	Ali Halassa, R., Bibi, M., Chikouche, M.	Behavior of Cementitious Materials under the Effect of an Eco-Cement Based on Dredged Sludge	cementitious materials, dam, dredging sludge, hybrid binder, siltation, treatment	45, 6, 455-465	https://doi.org/10.18280/acsm.450604	Ali Halassa, R., Bibi, M., Chikouche, M. (2021). Behavior of cementitious materials under the effect of an eco-cement based on dredged sludge. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 6, pp. 455-465. https://doi.org/10.18280/acsm.450604
5	Maza, M., Tebbal, N., Zitouni, S., Rahmouni, Z.E.A.	Combined Effect of Marble Waste as Powder and Aggregate Form on the Properties of the Mortar	recycling, environment, marble waste, sand, mechanical strengths, mortar	45, 6, 467-476	https://doi.org/10.18280/acsm.450605	Maza, M., Tebbal, N., Zitouni, S., Rahmouni, Z.E.A. (2021). Combined effect of marble waste as powder and aggregate form on the properties of the mortar. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 6, pp. 467-476. https://doi.org/10.18280/acsm.450605
6	Hasan, M.F., Nyakuma, B.B., Rahman, M.R.A., Othman, N., Ahmad, N., Said, M.F.M.	Torrefaction of Palm Kernel Shell and Petcoke Blends for Various Mixing Ratios and Temperatures	torrefaction, co-torrefaction, palm kernel shell, petcoke, petroleum coke	45, 6, 477-484	https://doi.org/10.18280/acsm.450606	Hasan, M.F., Nyakuma, B.B., Rahman, M.R.A., Othman, N., Ahmad, N., Said, M.F.M. (2021). Torrefaction of palm kernel shell and petcoke blends for various mixing ratios and temperatures. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 6, pp. 477-484. https://doi.org/10.18280/acsm.450606
7	Belouadah, M., Rahmouni, Z.E., Tebbal, N., El Hassen Hicham, M.	Evaluation of Concretes Made with Marble Waste Using Destructive and Non-Destructive Testing	concrete, marble powder, mechanical strength, destructive testing, durability, non-destructive testing, super plasticizer	45, 5, 361-368	https://doi.org/10.18280/acsm.450501	Belouadah, M., Rahmouni, Z.E., Tebbal, N., El Hassen Hicham, M. (2021). Evaluation of concretes made with marble waste using destructive and non-destructive testing. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 361-368. https://doi.org/10.18280/acsm.450501
8	Sugito, E., Hadiguna, R.A., Hasibuan, R.P.	Identification Material Distribution Process to Improve Material Handling Performance Using Risk Matrix Analysis (Case Study at Paper Manufacturing)	lean manufacturing, value stream mapping, root cause, and risk matrix	45, 5, 369-378	https://doi.org/10.18280/acsm.450502	Sugito, E., Hadiguna, R.A., Hasibuan, R.P. (2021). Identification material distribution process to improve material handling performance using risk matrix analysis (case study at paper manufacturing). <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 369-378. https://doi.org/10.18280/acsm.450502
9	Li, H.L., Zhang, Z.Q., Yang, W.	Stability Analysis of Slope Based on Limit Equilibrium Method and Strength Reduction Method	open-pit mine slope, limit equilibrium method, strength reduction method, stability analysis, finite-element method	45, 5, 379-384	https://doi.org/10.18280/acsm.450503	Li, H.L., Zhang, Z.Q., Yang, W. (2021). Stability analysis of slope based on limit equilibrium method and strength reduction method. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 379-384. https://doi.org/10.18280/acsm.450503
10	Khelladi, F.Z., Alliche, M., Rebhi, R., Lorenzini, G., Ahmad, H., Menni, Y.	The Effect of Bluff Body Shape on Flame Stability in a Non-Premixed Hydrogen-Methan-Air Mixture Combustion	CH ₄ -H ₂ -Air mixture, CO ₂ concentrations, non-premixed combustion, finite rate combustion, stabilization, flame stability, bluff body	45, 5, 385-392	https://doi.org/10.18280/acsm.450504	Khelladi, F.Z., Alliche, M., Rebhi, R., Lorenzini, G., Ahmad, H., Menni, Y. (2021). The effect of bluff body shape on flame stability in a non-premixed hydrogen-methan-air mixture combustion. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 385-392. https://doi.org/10.18280/acsm.450504
11	Jin, X.H., Zheng, J.Y.	Acoustic Emission Features of Anthracite under the Influence of Loading Rate	anthracite, loading rate, deformation and failure, acoustic emission (AE)	45, 5, 393-397	https://doi.org/10.18280/acsm.450505	Jin, X.H., Zheng, J.Y. (2021). Acoustic emission features of anthracite under the influence of loading rate. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 393-397. https://doi.org/10.18280/acsm.450505
12	Sultan, J.N., Abbas, M.K., Ibrahim, M.A.K., Karash, E.T., Ali, A.M., Ibrahim, H.A.	Corrosion Behavior of Thermal Seamless Carbon Steel Boiler Pipes	boiler, steel, carbon, pipes, metal, corrosion, boiler, seamless carbon	45, 5, 399-405	https://doi.org/10.18280/acsm.450506	Sultan, J.N., Abbas, M.K., Ibrahim, M.A.K., Karash, E.T., Ali, A.M., Ibrahim, H.A. (2021). Corrosion behavior of thermal seamless carbon steel boiler pipes. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 399-405. https://doi.org/10.18280/acsm.450506
13	Huang, J.	Preparation of Zinc Oxide Nanomaterial and Research and Development of Antibacterial Property	zinc oxide (ZnO) nanomaterial, preparation, antibacterial property, children's furniture	45, 5, 407-415	https://doi.org/10.18280/acsm.450507	Huang, J. (2021). Preparation of zinc oxide nanomaterial and research and development of antibacterial property. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 407-415. https://doi.org/10.18280/acsm.450507
14	Baali, L., Belagraa, L., Chikouche, M.A., Zeghichi, L.	Study of the Effect of Plastic Waste Fibers Incorporation on the Behavior of Self Compacting Concrete	waste, plastic fibers, SCC, cracking, rheology, mechanical properties	45, 5, 417-421	https://doi.org/10.18280/acsm.450508	Baali, L., Belagraa, L., Chikouche, M.A., Zeghichi, L. (2021). Study of the effect of plastic waste fibers incorporation on the behavior of self compacting concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 417-421. https://doi.org/10.18280/acsm.450508
15	Liang, J.	Environmental Function Evaluation and Preparation of Green Decorative Materials in Indoor Design	green decorative materials, indoor design, environmental function evaluation, preparation of wood product coating	45, 5, 423-430	https://doi.org/10.18280/acsm.450509	Liang, J. (2021). Environmental function evaluation and preparation of green decorative materials in indoor design. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 5, pp. 423-430. https://doi.org/10.18280/acsm.450509
16	Cheriet, R., Bensaad, B., Bouhadjela, F., Belhenini, S., Belharizi, M.	Contribution to the Study of Solid-Solid Thermal Contact Resistances--A Comparative Study	thermal contact resistance, hardness, semi-empirical models, actual contact rate, contact pressure, finite elements	45, 4, 267-272	https://doi.org/10.18280/acsm.450401	Cheriet, R., Bensaad, B., Bouhadjela, F., Belhenini, S., Belharizi, M. (2021). Contribution to the study of solid-solid thermal contact resistances--A comparative study. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 267-272. https://doi.org/10.18280/acsm.450401
17	Kalakuntala, R., Surnani, S.	Kinetic Modelling and Optimizing of Butyl Propionate over a Synthesised Material (Tungstan Phosphoric Acid) Heteropoly Catalyst Using Response Surface Technique	butyl propionate, optimization, kinetic model, Tungstan phosphoric acid	45, 4, 273-280	https://doi.org/10.18280/acsm.450402	Kalakuntala, R., Surnani, S. (2021). Kinetic modelling and optimizing of butyl propionate over a synthesised material (tungstan phosphoric acid) heteropoly catalyst using response surface technique. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 273-280. https://doi.org/10.18280/acsm.450402
18	Tian, P., Peng, K.X., Dong, H.N., Li, Y., Dong, W.Z.	The Effect of Mineral Powder on the Surface/Interface of Aggregates and Asphalt	asphalt mixture, surface and interface effect, adhesion, mineral powder, microscopic image	45, 4, 281-290	https://doi.org/10.18280/acsm.450403	Tian, P., Peng, K.X., Dong, H.N., Li, Y., Dong, W.Z. (2021). The effect of mineral powder on the surface/interface of aggregates and asphalt. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 281-290. https://doi.org/10.18280/acsm.450403

19	Bensalah, B., Omar, A., Elamine, D.M.	Microstructure and Mechanical Properties of the 55CrMoV4 Steel Exposed to Boriding and Nitriding Treatments	nitriding, boriding, microhardness, low alloys steels, corrosion	45, 4, 291-295	https://doi.org/10.18280/acsm.450404	Bensalah, B., Omar, A., Elamine, D.M. (2021). Microstructure and mechanical properties of the 55CrMoV4 steel exposed to boriding and nitriding treatments. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 291-295. https://doi.org/10.18280/acsm.450404
20	Wang, Y., Liu, J.L.	Optimal Mix Ratios of Green Building Materials and Construction Cost Control	building materials, mix ratio, construction cost, production cost, use benefit	45, 4, 297-306	https://doi.org/10.18280/acsm.450405	Wang, Y., Liu, J.L. (2021). Optimal mix ratios of green building materials and construction cost control. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 297-306. https://doi.org/10.18280/acsm.450405
21	Thiagarajan, T.B., Ponnusamy, S.	Process Variable Optimization of Cold Metal Transfer Technique in Cladding of Stellite-6 on AISI 316 L Alloy Using Grey Relational Analysis (GRA)	CMT Cladding, AISI 316 L, Stellite filler wire, GRA, ANOVA	45, 4, 307-315	https://doi.org/10.18280/acsm.450406	Thiagarajan, T.B., Ponnusamy, S. (2021). Process variable optimization of cold metal transfer technique in cladding of Stellite-6 on AISI 316 L alloy using Grey Relational Analysis (GRA). <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 307-315. https://doi.org/10.18280/acsm.450406
22	Jin, Y.F., Yan, L., Liu, Y., Li, C.S.	Research on the Damping Performance of Mining Highly Efficient Water-Retaining Colloidal Material Against the Spontaneous Combustion of Coal	fire protection materials, sodium alginate, high hydrocolloid, coal spontaneous combustion	45, 4, 317-327	https://doi.org/10.18280/acsm.450407	Jin, Y.F., Yan, L., Liu, Y., Li, C.S. (2021). Research on the damping performance of mining highly efficient water-retaining colloidal material against the spontaneous combustion of coal. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 317-327. https://doi.org/10.18280/acsm.450407
23	Markja, I., Dhoska, K., Elezi, D., Moezzi, R., Petru, M.	Effect of the Grain Sizes on the Ultrasonic Propagation and Attenuation on Different Types of Steels Microstructure During Non-Destructive Testing	non-destructive testing/NDT, microstructure, grain size, steel, UT, ultrasonic NDT propagation and attenuation, micro-hardness HV	45, 4, 329-334	https://doi.org/10.18280/acsm.450408	Markja, I., Dhoska, K., Elezi, D., Moezzi, R., Petru, M. (2021). Effect of the grain sizes on the ultrasonic propagation and attenuation on different types of steels microstructure during non-destructive testing. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 329-334. https://doi.org/10.18280/acsm.450408
24	Ghoumaz, M., Hameurlain, M.	Study and Simulation of a Sensor Based on 2D Photonic Crystals for the Detection of Aromatic Compounds: C6H5I, C6H5F and C6H5Cl	photonic crystals, FEM, sensor, organic compounds	45, 4, 335-339	https://doi.org/10.18280/acsm.450409	Ghoumaz, M., Hameurlain, M. (2021). Study and simulation of a sensor based on 2D photonic crystals for the detection of aromatic compounds: C6H5I, C6H5F and C6H5Cl. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 335-339. https://doi.org/10.18280/acsm.450409
25	Li, H., Gong, G., Lv, T.	Hydrothermal Aging and Bonding Properties of a New Room Temperature Cured Structural Adhesive in Building Components	structural adhesives, hydrothermal aging, dynamic mechanical analysis, concrete repair, bonding rebars to concrete	45, 4, 341-350	https://doi.org/10.18280/acsm.450410	Li, H., Gong, G., Lv, T. (2021). Hydrothermal aging and bonding properties of a new room temperature cured structural adhesive in building components. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 341-350. https://doi.org/10.18280/acsm.450410
26	Aljabri, N.A.S., Hussein, M.N., Khamees, A.A.	Performance of Ultra High Strength Concrete Exposed to High Rise Temperature	UHPCs, fibers, temperature effect, mechanical properties	45, 4, 351-359	https://doi.org/10.18280/acsm.450411	Aljabri, N.A.S., Hussein, M.N., Khamees, A.A. (2021). Performance of ultra high strength concrete exposed to high rise temperature. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 4, pp. 351-359. https://doi.org/10.18280/acsm.450411
27	Chabane, M., Melkaoui, C., Dahmani, B., Boudjenane, Z.	Influence of Sodium Magnhite Nanoclay on the Polyvinylidene Fluoride Crystal Transition in Composite Membranes and Its Effect on Bovine Serum Albumin Protein Extraction	crystal, PVDF, composite, membrane, PVP, Maghinite, piezoelectric	45, 3, 191-200	https://doi.org/10.18280/acsm.450301	Chabane, M., Melkaoui, C., Dahmani, B., Boudjenane, Z. (2021). Influence of sodium Maghinite nanoclay on the polyvinylidene fluoride crystal transition in composite membranes and its effect on bovine serum albumin protein extraction. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 191-200. https://doi.org/10.18280/acsm.450301
28	Salins, S.S., Mohan, M., Stephen, C.	Finite Element Investigation on the Performance of Pressure Vessel Subjected to Structural Load	pressure vessel, finite element analysis, ANSYS workbench, stress analysis, factor of safety	45, 3, 201-205	https://doi.org/10.18280/acsm.450302	Salins, S.S., Mohan, M., Stephen, C. (2021). Finite element investigation on the performance of pressure vessel subjected to structural load. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 201-205. https://doi.org/10.18280/acsm.450302
29	Sun, Z.D., Hou, D.B., Li, W.	Effect of Carburizing and Nitriding on Fatigue Properties of 18Cr2Ni4WA Steel in Very High Cycle Fatigue Regime	very high cycle fatigue, carburizing, nitriding, inclusion, defect, life prediction	45, 3, 207-215	https://doi.org/10.18280/acsm.450303	Sun, Z.D., Hou, D.B., Li, W. (2021). Effect of carburizing and nitriding on fatigue properties of 18Cr2Ni4WA steel in very high cycle fatigue regime. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 207-215. https://doi.org/10.18280/acsm.450303
30	Naima, K., Menni, Y., Alliche, M., Lorenzini, G., Ahmad, H., Liazid, A.	Effect of EGR on Performances and Emissions of DI Diesel Engine Fueled with Waste Plastic Oil: CDF Approach	waste plastic oil, fuel, diesel, EGR, injection timing	45, 3, 217-223	https://doi.org/10.18280/acsm.450304	Naima, K., Menni, Y., Alliche, M., Lorenzini, G., Ahmad, H., Liazid, A. (2021). Effect of EGR on performances and emissions of DI diesel engine fueled with waste plastic oil: CDF approach. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 217-223. https://doi.org/10.18280/acsm.450304
31	Chouia, F., Chala, A., Lakel, A., Sahrroui, T.	Morphology and Corrosion Behavior of Zn-Ni Layers Electrodeposited on Low Alloy Carbon Steel Substrate	corrosion, Zn-Ni layers, morphology, electroplating, low alloy steel	45, 3, 225-230	https://doi.org/10.18280/acsm.450305	Chouia, F., Chala, A., Lakel, A., Sahrroui, T. (2021). Morphology and corrosion behavior of Zn-Ni layers electrodeposited on low alloy carbon steel substrate. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 225-230. https://doi.org/10.18280/acsm.450305
32	Tao, X.J., Li, Y.L., Li, Y.C., Sun, D.Y., Xie, A.	Electroluminescent Polymer Materials and Their Applications	electroluminescence, high polymer materials, panel display	45, 3, 231-238	https://doi.org/10.18280/acsm.450306	Tao, X.J., Li, Y.L., Li, Y.C., Sun, D.Y., Xie, A. (2021). Electroluminescent polymer materials and their applications. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 231-238. https://doi.org/10.18280/acsm.450306
33	Khedaywi, T.S., Haddad, M.A., Al Qadi, A.N.S., Al-Rababah, O.A.	Investigating the Effect of Addition of Olive Husk Ash on Asphalt Binder Properties	olive husk ash, asphalt binder, penetration, ductility, flash and fire point, ring and ball test	45, 3, 239-243	https://doi.org/10.18280/acsm.450307	Khedaywi, T.S., Haddad, M.A., Al Qadi, A.N.S., Al-Rababah, O.A. (2021). Investigating the effect of addition of olive husk ash on asphalt binder properties. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 239-243. https://doi.org/10.18280/acsm.450307
34	Rabouhi, H., Khelfaoui, Y., Khiredine, A.	Characterization and Microstructural Evolution of WC-Co Cemented Carbides	sintering, hot isostatic pressing, WC-Co cemented carbide, hardness, microstructure, density	45, 3, 245-249	https://doi.org/10.18280/acsm.450308	Rabouhi, H., Khelfaoui, Y., Khiredine, A. (2021). Characterization and microstructural evolution of WC-Co cemented carbides. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 245-249. https://doi.org/10.18280/acsm.450308
35	Chikouche, M.A.	Valorization of Heat Treated Dredged Sludge in the Cement Matrix of Ordinary Concrete	cement, concrete, mechanical test, physical measurement, sludge, thermogravimetric analysis	45, 3, 251-257	https://doi.org/10.18280/acsm.450309	Chikouche, M.A. (2021). Valorization of heat treated dredged sludge in the cement matrix of ordinary concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 251-257. https://doi.org/10.18280/acsm.450309
36	Zhang, G.F., Jiang, H.D.	Development of Impregnated Diamond Bit with Primary and Secondary Abrasives Based on Matrix Weakening Theory	primary and secondary abrasives, impregnated diamond bit, matrix weakening theory, drilling efficiency, service life	45, 3, 259-265	https://doi.org/10.18280/acsm.450310	Zhang, G.F., Jiang, H.D. (2021). Development of impregnated diamond bit with primary and secondary abrasives based on matrix weakening theory. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 3, pp. 259-265. https://doi.org/10.18280/acsm.450310
37	Boursas, A., Salmi, M., Lorenzini, G., Ahmad, H., Menni, Y., Fridja, D.	Enhanced Heat Transfer by Oil/Multi-Walled Carbon Nano-Tubes Nanofluid	nanofluid, oil, multi-walled carbon nano-tubes, mechanical properties, thermodynamic properties	5, 2, 93-103	https://doi.org/10.18280/acsm.450201	Boursas, A., Salmi, M., Lorenzini, G., Ahmad, H., Menni, Y., Fridja, D. (2021). Enhanced heat transfer by oil/multi-walled carbon nano-tubes nanofluid. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 93-103. https://doi.org/10.18280/acsm.450201

38	Chebbi, R., Fadel, A., Aidi, A.	The Elimination by Natural Algerian Clay of Chromium Ions from Salt Water	adsorption, brackish water, bentonite, chromium removal, kinetic	5, 2, 105-112	https://doi.org/10.18280/acsm.450202	Chebbi, R., Fadel, A., Aidi, A. (2021). The elimination by natural Algerian clay of chromium ions from salt water. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 105-112. https://doi.org/10.18280/acsm.450202
39	Sahdev, S., Kumar, H., Butola, R., Singari, R.M.	Evaluating the Effect of Process Parameters on FSP of Al5083 Alloy Using ANSYS	friction stir processing, process parameters, aluminium 5083, numerical modelling	5, 2, 113-120	https://doi.org/10.18280/acsm.450203	Sahdev, S., Kumar, H., Butola, R., Singari, R.M. (2021). Evaluating the effect of process parameters on FSP of Al5083 alloy using ANSYS. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 113-120. https://doi.org/10.18280/acsm.450203
40	Boualleg, S.	The Study of Slag Cement's Microstructural Properties	hydration, bound water, degrees of hydration, slag, strength, thermogravimetric analysis, portlandite, non-evaporable water	5, 2, 121-133	https://doi.org/10.18280/acsm.450204	Boualleg, S. (2021). The study of slag cement's microstructural properties. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 121-133. https://doi.org/10.18280/acsm.450204
41	Qiao, T.B.	Application of Conductive Polymer-Based Hydrogel in Multi-robot Balance Control	hydrogel, conductive polymer, flexible electronic device, central pattern generator (CPG)	5, 2, 135-140	https://doi.org/10.18280/acsm.450205	Qiao, T.B. (2021). Application of conductive polymer-based hydrogel in multi-robot balance control. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 135-140. https://doi.org/10.18280/acsm.450205
42	Boulaout, N., Mezaache, E.H., Laouer, A.	Study of Thermal Behavior of a Horizontal Two Fins Annular Tube Heat Exchanger with Melting Phase Change Material: Fins Orientation Effects	pcm melting, heat transfer enhancement, thermal storage, heat exchanger, natural convection, fins, annular tube	5, 2, 141-151	https://doi.org/10.18280/acsm.450206	Boulaout, N., Mezaache, E.H., Laouer, A. (2021). Study of thermal behavior of a horizontal two fins annular tube heat exchanger with melting phase change material: Fins orientation effects. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 141-151. https://doi.org/10.18280/acsm.450206
43	Chandrasekaran, V.	Characteristics Investigations of Dry Bamboo Ash Fractional Replaced Cement with in M25 Grade Concrete	dry bamboo ash, 53 grade of cement, M-sands (fine aggregate), coarse aggregate	5, 2, 153-159	https://doi.org/10.18280/acsm.450207	Chandrasekaran, V. (2021). Characteristics investigations of dry bamboo ash fractional replaced cement with in M25 grade concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 153-159. https://doi.org/10.18280/acsm.450207
44	Wang, J.R., Zhang, Z.C., Guo, Y., Zhang, L.Y., Liu, J.L.	Experimental Study on the Treatment of Rural Domestic Wastewater Using the Multi-Soil-Layering System Filled with Sludge-Based Biochar	sludge-based biochar, rural domestic wastewater, multi-media soil layering system (MSL), hydraulic loading rate (HLRs), zeolite	5, 2, 161-165	https://doi.org/10.18280/acsm.450208	Wang, J.R., Zhang, Z.C., Guo, Y., Zhang, L.Y., Liu, J.L. (2021). Experimental study on the treatment of rural domestic wastewater using the multi-soil-layering system filled with sludge-based biochar. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 161-165. https://doi.org/10.18280/acsm.450208
45	Khier, L., Abdelghani, L., Maoouche, D.	X-Ray Peak Profile Analysis of Materials M1 and M2 by Williamson-Hall and Size-Strain Plot Methods	Kaolin M1, Kaolin M2, microstrains, method of stokes, distribution of the sizes	5, 2, 167-173	https://doi.org/10.18280/acsm.450209	Khier, L., Abdelghani, L., Maoouche, D. (2021). X-Ray peak profile analysis of materials M1 and M2 by Williamson-Hall and size-strain plot methods. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 167-173. https://doi.org/10.18280/acsm.450209
46	Herbirowo, S., Imaduddin, A., Hendrik, Pramono, A.W., Sunardi, Saefuloh, I.	In-Situ Manufacturing of SiC-Doped MgB ₂ Used for Superconducting Wire	MgB ₂ , silicon carbide, superconductor, heat treatment, SS304, critical temperature	5, 2, 175-179	https://doi.org/10.18280/acsm.450210	Herbirowo, S., Imaduddin, A., Hendrik, Pramono, A.W., Sunardi, Saefuloh, I. (2021). In-Situ manufacturing of SiC-Doped MgB ₂ used for superconducting wire. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 175-179. https://doi.org/10.18280/acsm.450210
47	Ma, C.L.	Physical Properties and Durability of Green Fiber-Reinforced Concrete for Road Bridges	green fiber, road bridges, concrete, physical-mechanical properties, durability	5, 2, 181-189	https://doi.org/10.18280/acsm.450211	Ma, C.L. (2021). Physical properties and durability of green fiber-reinforced concrete for road bridges. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 2, pp. 181-189. https://doi.org/10.18280/acsm.450211
48	Mauduit, A., Gransac, H., Pillot, S.	Influence of the Manufacturing Parameters in Selective Laser Melting on Properties of Aluminum Alloy AlSi7Mg0.6 (A357)	selective laser melting, AlSi7Mg0.6 alloy (A357), manufacturing parameters	5, 1, 1-10	https://doi.org/10.18280/acsm.450101	Mauduit, A., Gransac, H., Pillot, S. (2021). Influence of the manufacturing parameters in selective laser melting on properties of aluminum alloy AlSi7Mg0.6 (A357). <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 1, pp. 1-10. https://doi.org/10.18280/acsm.450101
49	Al Qadi, A.N.S., Khedaywi, T.S., Haddad, M.A., Al-Rababa'ah, O.A.	Investigating the Effect of Olive Husk Ash on the Properties of Asphalt Concrete Mixture	olive husk ash, asphalt concrete, Marshall test, stability, flow, Retained stability	5, 1, 11-15	https://doi.org/10.18280/acsm.450102	Al Qadi, A.N.S., Khedaywi, T.S., Haddad, M.A., Al-Rababa'ah, O.A. (2021). Investigating the effect of olive husk ash on the properties of asphalt concrete mixture. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 1, pp. 11-15. https://doi.org/10.18280/acsm.450102
50	Wang, Y., Wang, H.X., Yang, L.W., Qian, L.	Hydration Features of Composite Binding Material with High-Dose Copper Tailings	high-dose copper tailings, composite binding material, hydration kinetics, hydration rate, hydration heat	5, 1, 17-24	https://doi.org/10.18280/acsm.450103	Wang, Y., Wang, H.X., Yang, L.W., Qian, L. (2021). Hydration features of composite binding material with high-dose copper tailings. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 1, pp. 17-24. https://doi.org/10.18280/acsm.450103
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53	Harkat, M., Alleg, S., Chemam, R., Azzaza, S., Mokhtari, M., Dhahri, E.	Synthesis and Characterization of Thermally Stable Hydroxyapatite	hydroxyapatite, wet chemical route, XRD, Rietveld refinement, SEM	5, 1, 43-50	https://doi.org/10.18280/acsm.450106	Harkat, M., Alleg, S., Chemam, R., Azzaza, S., Mokhtari, M., Dhahri, E. (2021). Synthesis and characterization of thermally stable hydroxyapatite. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 1, pp. 43-50. https://doi.org/10.18280/acsm.450106
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58	Zhao, F.F.	Modeling and Thermal-Mechanical Coupling Analysis of Piston in Car Engines	diesel engine piston, aluminum-based material, finite-element analysis (FEA), stress distribution, temperature distribution	5, 1, 83-92	https://doi.org/10.18280/acsm.450111	Zhao, F.F. (2021). Modeling and thermal-mechanical coupling analysis of piston in car engines. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 45, No. 1, pp. 83-92. https://doi.org/10.18280/acsm.450111
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64	Ennaciri, Y., Bettach, M., El Alaoui-Belghiti, H.	Phosphogypsum conversion into calcium fluoride and sodium sulfate	phosphogypsum, sodium fluoride, calcium fluoride, sodium sulfate, wet conversion	44, 6, 407-412	https://doi.org/10.18280/acsm.440606	Ennaciri, Y., Bettach, M., El Alaoui-Belghiti, H. (2020). Phosphogypsum conversion into calcium fluoride and sodium sulfate. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 6, pp. 407-412. https://doi.org/10.18280/acsm.440606
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69	Gopi, V., Swamy, K.K., Gopi, A.P., Narayana, V.L.	Experimental study on shear behavior of reinforced concrete sandwich deep beam	deep beam, shear reinforcement, insulation pad, crack pattern, diagonal crack	44, 5, 301-309	https://doi.org/10.18280/acsm.440501	Gopi, V., Swamy, K.K., Gopi, A.P., Narayana, V.L. (2020). Experimental study on shear behavior of reinforced concrete sandwich deep beam. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 5, pp. 301-309. https://doi.org/10.18280/acsm.440501
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81	Abed, M.M., Al-maammori, M.H.	Optimization of novel sphere sandwich structure for impact requirements	carving wax, Sphere Sandwich Structure, lightweight materials, RSM-optimization	44, 4, 251-256	https://doi.org/10.18280/acsm.440403	Abed, M.M., Al-maammori, M.H. (2020). Optimization of novel sphere sandwich structure for impact requirements. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 4, pp. 251-256. https://doi.org/10.18280/acsm.440403
82	Chen, C.B., Tang, P.C., Zhuang, J.J.	Influence of waste slurry as mixing water on the properties of C80 concrete with different mineral admixtures	waste slurry, mixing station, high-performance concrete, mineral admixture	44, 4, 257-262	https://doi.org/10.18280/acsm.440404	Chen, C.B., Tang, P.C., Zhuang, J.J. (2020). Influence of waste slurry as mixing water on the properties of C80 concrete with different mineral admixtures. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 4, pp. 257-262. https://doi.org/10.18280/acsm.440404
83	Rabouhi, H., Khelifaoui, Y., Khireddine, A.	Comparative study by image analysis of WC-Co alloys elaborated by liquid phase sintering and hot isostatic pressing	sintering, hot isostatic pressing-cemented carbide, hardness, microstructure, image analysis	44, 4, 263-269	https://doi.org/10.18280/acsm.440405	Rabouhi, H., Khelifaoui, Y., Khireddine, A. (2020). Comparative study by image analysis of WC-Co alloys elaborated by liquid phase sintering and hot isostatic pressing. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 4, pp. 263-269. https://doi.org/10.18280/acsm.440405
84	Senapati, P.N., Bhoi, R.K.	Characterization of friction-stir welded joints of AA1100 by factorial design based hierarchical regression model	friction stir welding, full factorial design, design of experiments, hierarchical regression analysis, tensile strength, average grain size	44, 4, 271-280	https://doi.org/10.18280/acsm.440406	Senapati, P.N., Bhoi, R.K. (2020). Characterization of friction-stir welded joints of AA1100 by factorial design based hierarchical regression model. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 4, pp. 271-280. https://doi.org/10.18280/acsm.440406
85	Dwivedi, S.P., Sharma, S., Singh, T., Kumar, N.	Mechanical and metallurgical characterization of copper-based welded joint using brass as filler metal developed by microwave technique	copper, brass based powder, microwave technique, corrosion, specific strength	44, 4, 281-286	https://doi.org/10.18280/acsm.440407	Dwivedi, S.P., Sharma, S., Singh, T., Kumar, N. (2020). Mechanical and metallurgical characterization of copper-based welded joint using brass as filler metal developed by microwave technique. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 4, pp. 281-286. https://doi.org/10.18280/acsm.440407
86	Huang, S.T., Zhang, Y.M., Jiao, X.D., Zhou, C.F.	Effects of welding parameters of pulsed gas metal arc welding on microstructure and mechanical performance of joints welded in hyperbaric environment	pulsed gas metal arc welding (GMAW), hyperbaric environment, arc voltage, pulse frequency, microstructure, mechanical performance	44, 4, 287-294	https://doi.org/10.18280/acsm.440408	Huang, S.T., Zhang, Y.M., Jiao, X.D., Zhou, C.F. (2020). Effects of welding parameters of pulsed gas metal arc welding on microstructure and mechanical performance of joints welded in hyperbaric environment. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 4, pp. 287-294. https://doi.org/10.18280/acsm.440408
87	Kumar, S., Srivastava, A.K., Singh, R.K.	Fabrication of AA7075 hybrid green metal matrix composites by friction stir processing technique	friction stir processing (FSP), hybrid green metal matrix composites (MMCs), aluminum alloys, waste management, environmentally friendly	44, 4, 295-300	https://doi.org/10.18280/acsm.440409	Kumar, S., Srivastava, A.K., Singh, R.K. (2020). Fabrication of AA7075 hybrid green metal matrix composites by friction stir processing technique. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 4, pp. 295-300. https://doi.org/10.18280/acsm.440409
88	Mauduit, A., Gransac, H.	Study of the precipitation kinetics and mechanisms in 6000 series aluminium alloys through the measurement of electrical conductivity	electrical conductivity, precipitation kinetics, 6000 series aluminium alloys	44, 3, 141-149	https://doi.org/10.18280/acsm.440301	Mauduit, A., Gransac, H. (2020). Study of the precipitation kinetics and mechanisms in 6000 series aluminium alloys through the measurement of electrical conductivity. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 3, pp. 141-149. https://doi.org/10.18280/acsm.440301
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90	Luo, E.H., Zhang, W., Zhang, R.X., Liu, Y., Liu, X.M., Wang, C.L.	A novel energy saving operation strategy of multiparameter coupling coordinated speed regulation for crushing	sustainable, energy saving, crushing station, multiparameter	44, 3, 161-178	https://doi.org/10.18280/acsm.440303	Luo, E.H., Zhang, W., Zhang, R.X., Liu, Y., Liu, X.M., Wang, C.L. (2020). A novel energy saving operation strategy of multiparameter coupling coordinated speed regulation for crushing. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 3, pp. 161-178. https://doi.org/10.18280/acsm.440303
91	Mekky, A.H.	Electrical and optical simulation of hybrid perovskite-based solar cell at various electron transport materials and light intensity	perovskite, electron transport layer, light intensity, GPVDM model, solar cells, performance parameters	44, 3, 179-184	https://doi.org/10.18280/acsm.440304	Mekky, A.H. (2020). Electrical and optical simulation of hybrid perovskite-based solar cell at various electron transport materials and light intensity. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 3, pp. 179-184. https://doi.org/10.18280/acsm.440304
92	Shahmir, N.G., Bhat, M.	Structural and luminance properties of light transmitting concrete	energy efficient, greenhouse gas, light transmitting concrete, plastic optical fiber	44, 3, 185-190	https://doi.org/10.18280/acsm.440305	Shahmir, N.G., Bhat, M. (2020). Structural and luminance properties of light transmitting concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 3, pp. 185-190. https://doi.org/10.18280/acsm.440305
93	Belguendouz, O., Mebarek, B., Keddad, M., El Guerri, Y.	Diffusion model for simulating the kinetics of boronizing process in the case of FeB/Fe ₂ B bilayer configuration	boronizing, simulation, iron borides, diffusion model, fick's law	44, 3, 191-197	https://doi.org/10.18280/acsm.440306	Belguendouz, O., Mebarek, B., Keddad, M., El Guerri, Y. (2020). Diffusion model for simulating the kinetics of boronizing process in the case of FeB/Fe ₂ B bilayer configuration. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 3, pp. 191-197. https://doi.org/10.18280/acsm.440306
94	Luo, B.	Flexural behaviour of precast steel fibres reinforced concrete composite slabs with different shapes	precast, concrete composite slab (CCS), failure mode, ultimate bearing capacity, calculation method	44, 3, 199-209	https://doi.org/10.18280/acsm.440307	Luo, B. (2020). Flexural behaviour of precast steel fibres reinforced concrete composite slabs with different shapes. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 3, pp. 199-209. https://doi.org/10.18280/acsm.440307

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96	Abdelghani, L.	Determination of the diffusion coefficient and the activation energy of fluoroplastics	DSC, expanded graphite, nanotube, transition, heating rate, dispersion	44, 3, 217-222	https://doi.org/10.18280/acsm.440309	Abdelghani, L. (2020). Determination of the diffusion coefficient and the activation energy of fluoroplastics. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 3, pp. 217-222. https://doi.org/10.18280/acsm.440309
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98	Kosmatskiy, Y.I., Lysov, D., Fokin, N., Nikolenko, V.	Improving of manufacturing of hot-extruded pipes from Ni-based alloys	hot extrusion, Ni-based alloys, deformation resistance, pliability, temperature-speed modes, quality of surface	44, 2, 79-84	https://doi.org/10.18280/acsm.440201	Kosmatskiy, Y.I., Lysov, D., Fokin, N., Nikolenko, V. (2020). Improving of manufacturing of hot-extruded pipes from Ni-based alloys. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 79-84. https://doi.org/10.18280/acsm.440201
99	Boumezhaz, M/A., Mellas, M., Goudjil, K., Boucetta, F.	Study of the aging of a concrete reinforced by alkali resistant glass fiber in the wet environment	aging, sulfate resistant cement (SRC), ARHP glass fiber, durability, concrete	44, 2, 85-90	https://doi.org/10.18280/acsm.440202	Boumezhaz, M/A., Mellas, M., Goudjil, K., Boucetta, F. (2020). Study of the aging of a concrete reinforced by alkali resistant glass fiber in the wet environment. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 85-90. https://doi.org/10.18280/acsm.440202
100	Subanddi, Agustina, F., Vebrian, Azzahra, R.	Waste paper ash as additives for high strength concrete mix 45 MPa	admixture, additive, rice husk ash, chemical, chemical content of cement	44, 2, 91-96	https://doi.org/10.18280/acsm.440203	Subanddi, Agustina, F., Vebrian, Azzahra, R. (2020). Waste paper ash as additives for high strength concrete mix 45 MPa. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 91-96. https://doi.org/10.18280/acsm.440203
101	Luo, H., Ma, F.R., Yang, Q.	Experimental analysis on mechanical performance of recycled concrete made from polypropylene fiber and artificial sand	polypropylene fiber, artificial sand, recycled concrete, compressive strength	44, 2, 97-102	https://doi.org/10.18280/acsm.440204	Luo, H., Ma, F.R., Yang, Q. (2020). Experimental analysis on mechanical performance of recycled concrete made from polypropylene fiber and artificial sand. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 97-102. https://doi.org/10.18280/acsm.440204
102	Malhotra, P., Singh, N.K., Tyagi, R.K., Sikarwar, B.S.	Comparative micro structural investigation of Al-SiC-Mg and Al-B4C-Mg particulate metal matrix composite	hybrid composite, stir casting, reinforcement, boron carbide, silicon carbide, magnesium	44, 2, 103-108	https://doi.org/10.18280/acsm.440205	Malhotra, P., Singh, N.K., Tyagi, R.K., Sikarwar, B.S. (2020). Comparative micro structural investigation of Al-SiC-Mg and Al-B4C-Mg particulate metal matrix composite. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 103-108. https://doi.org/10.18280/acsm.440205
103	Sahoo, D.K., Mohanty, B.S., Maalika Veetil, A.P.	Evaluation of bond strength and flash mass on friction surfaced deposition of aluminum 6063 over IS 2062 low carbon steel using different mechtrode face	friction surfacing, mechtrode face, micro hardness, ram tensile, bending, FE-SEM, XRD	44, 2, 109-119	https://doi.org/10.18280/acsm.440206	Sahoo, D.K., Mohanty, B.S., Maalika Veetil, A.P. (2020). Evaluation of bond strength and flash mass on friction surfaced deposition of aluminum 6063 over IS 2062 low carbon steel using different mechtrode face. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 109-119. https://doi.org/10.18280/acsm.440206
104	Daranfed, W., Guermat, N., Mirouh, K.	Experimental study of precursor concentration the Co3O4 thin films used as solar absorbers	thin film, Co3O4, precursor concentration, spray pyrolysis, XRD, transmittance	44, 2, 121-126	https://doi.org/10.18280/acsm.440207	Daranfed, W., Guermat, N., Mirouh, K. (2020). Experimental study of precursor concentration the Co3O4 thin films used as solar absorbers. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 121-126. https://doi.org/10.18280/acsm.440207
105	Sharma, P., Dwivedi, S.P., Dwivedi, V.K.	Physical, mechanical and thermal behaviour of high entropy materials	corrosion behaviour, grain structure, hardness, high entropy alloy, tensile strength	44, 2, 127-132	https://doi.org/10.18280/acsm.440208	Sharma, P., Dwivedi, S.P., Dwivedi, V.K. (2020). Physical, mechanical and thermal behaviour of high entropy materials. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 127-132. https://doi.org/10.18280/acsm.440208
106	Meng, F.L., Gao, D.Y., Chen, F.Q., Huang, C.S.	Fatigue performance test and life calculation of fiber-reinforced asphalt concrete	fiber-reinforced asphalt concrete (FRAC), fatigue performance, splitting fatigue test, characteristic parameter of fiber content (FCCP)	44, 2, 133-139	https://doi.org/10.18280/acsm.440209	Meng, F.L., Gao, D.Y., Chen, F.Q., Huang, C.S. (2020). Fatigue performance test and life calculation of fiber-reinforced asphalt concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 2, pp. 133-139. https://doi.org/10.18280/acsm.440209
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110	Wu, Z.Y., Wen, G., Han, Y.	Grain growth and oxidation resistance of Fe-Cr-Al electrothermal alloy doped with yttrium	grain growth, oxidation resistance, electrothermal alloy, yttrium (Y)	44, 1, 29-36	https://doi.org/10.18280/acsm.440104	Wu, Z.Y., Wen, G., Han, Y. (2020). Grain growth and oxidation resistance of Fe-Cr-Al electrothermal alloy doped with yttrium. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 44, No. 1, pp. 29-36. https://doi.org/10.18280/acsm.440104
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117	Poudeu, R.C., Ekani, C.J., Djangang, C.N., Blanchart, P.	Role of heat-treated laterite on the strengthening of geopolymer designed with laterite as solid precursor	laterite, geopolymer, heat-treatment, strengthening, network structure, construction material	43, 6, 359-367	https://doi.org/10.18280/acsm.430601	Poudeu, R.C., Ekani, C.J., Djangang, C.N., Blanchart, P. (2019). Role of heat-treated laterite on the strengthening of geopolymer designed with laterite as solid precursor. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 6, pp. 359-367. https://doi.org/10.18280/acsm.430601
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123	Ali, K., Amna, R., Malik, M.I., Shamsah, S.I., Kim, K.	Impacts of different parameters on spray cooling of copper alloy B14	1D model, surface roughness, spray nozzle, full jet nozzle, water effect	43, 5, 281-286	https://doi.org/10.18280/acsm.430501	Ali, K., Amna, R., Malik, M.I., Shamsah, S.I., Kim, K. (2019). Impacts of different parameters on spray cooling of copper alloy B14. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 281-286. https://doi.org/10.18280/acsm.430501
124	Subandi, Yatnikasari, S., Damaiyanti, M., Azzahra, R., Vebrian.	Effect of additional fiberglass fiber on concrete performance	fiberglass concrete, fibrous, fiber, chopped strand mat, material	43, 5, 287-292	https://doi.org/10.18280/acsm.430502	Subandi, Yatnikasari, S., Damaiyanti, M., Azzahra, R., Vebrian. (2019). Effect of additional fiberglass fiber on concrete performance. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 287-292. https://doi.org/10.18280/acsm.430502
125	Lu, Y.Q., Li, M.	Solidification of heavy metals in waste incineration fly ashes with silica-alumina composite	composite, heavy metal, compressive strength, hydration products	43, 5, 293-298	https://doi.org/10.18280/acsm.430503	Lu, Y.Q., Li, M. (2019). Solidification of heavy metals in waste incineration fly ashes with silica-alumina composite. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 293-298. https://doi.org/10.18280/acsm.430503
126	Hakkoum, A., Ameur, N., Bachir, R., Bedrane, S., Choukchou-Braham, A.	Activity of bimetallic gold-iron catalysts in adipic acid production by direct oxidation of cyclohexene with molecular oxygen	oxidation, cyclohexene, gold, iron, doped material, catalysts	43, 5, 299-304	https://doi.org/10.18280/acsm.430504	Hakkoum, A., Ameur, N., Bachir, R., Bedrane, S., Choukchou-Braham, A. (2019). Activity of bimetallic gold-iron catalysts in adipic acid production by direct oxidation of cyclohexene with molecular oxygen. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 299-304. https://doi.org/10.18280/acsm.430504
127	Reddy, P.N., Kavyateja, B.V.	Experimental study on strength parameters of self repairing concrete	durability of structures, bacillus subtilis, calcium lactate, calcium carbonate, microbial concrete, self healing cracks, rehabilitation, modulus of rupture, urea	43, 5, 305-310	https://doi.org/10.18280/acsm.430505	Reddy, P.N., Kavyateja, B.V. (2019). Experimental study on strength parameters of self repairing concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 305-310. https://doi.org/10.18280/acsm.430505
128	Sun, D.L., Zhao, L.L., Liang, G.H., Zhou, H.W.	Prediction of bolted joint dynamics based on the thin-layer element of nonlinear material	bolted joint, Thin-Layer Element (TLE), stiffness, finite-element model	43, 5, 311-315	https://doi.org/10.18280/acsm.430506	Sun, D.L., Zhao, L.L., Liang, G.H., Zhou, H.W. (2019). Prediction of bolted joint dynamics based on the thin-layer element of nonlinear material. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 311-315. https://doi.org/10.18280/acsm.430506
129	Dyaneshwar, S.S., Manoj, S.A., Gangadhar, D.A., Balinge, K.R., Mana, A.P., Bhagat, P.R.	Comparing the tribological properties of chloride-based and tetra fluoroborate-based ionic liquids	tribological properties, friction, lubricant, ionic liquids, surface characterization	43, 5, 314-327	https://doi.org/10.18280/acsm.430507	Dyaneshwar, S.S., Manoj, S.A., Gangadhar, D.A., Balinge, K.R., Mana, A.P., Bhagat, P.R. (2019). Comparing the tribological properties of chloride-based and tetra fluoroborate-based ionic liquids. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 317-327. https://doi.org/10.18280/acsm.430507
130	Kebir, T., Harchouche, Z.E.A., Elmeiche, A., Benguediab, M.	Dissipated strain energy of aluminum alloy 6061-T6 induced by low cycle fatigue	dissipated strain energy, low cycle fatigue, imposed plastic strain, hysteresis loop, Alloy 6061-t6	43, 5, 329-334	https://doi.org/10.18280/acsm.430508	Kebir, T., Harchouche, Z.E.A., Elmeiche, A., Benguediab, M. (2019). Dissipated strain energy of aluminum alloy 6061-T6 induced by low cycle fatigue. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 329-334. https://doi.org/10.18280/acsm.430508
131	Li, Y., Zhang, Y.X., Xue, W., Zhou, Y.J., Li, B., Ding, Y.P., Zhang, R.Z.	Electroreduction of p-nitrophenol by surfactant modified electrodes	p-nitrophenol, linear sweep voltammetry, surfactant, modified electrode	43, 5, 335-340	https://doi.org/10.18280/acsm.430509	Li, Y., Zhang, Y.X., Xue, W., Zhou, Y.J., Li, B., Ding, Y.P., Zhang, R.Z. (2019). Electroreduction of p-nitrophenol by surfactant modified electrodes. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 335-340. https://doi.org/10.18280/acsm.430509

132	Dwivedi, S.P., Srivastava, A.K., Maurya, N.K., Maurya, M.	Microstructure and mechanical properties of Al6061/Al2O3/fly-ash composite fabricated through stir casting	hybrid composite, Al2O3, fly-ash, tensile strength, hardness, ductility	43, 5, 341-346	https://doi.org/10.18280/acsm.430510	Dwivedi, S.P., Srivastava, A.K., Maurya, N.K., Maurya, M. (2019). Microstructure and mechanical properties of Al6061/Al2O3/fly-ash composite fabricated through stir casting. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 341-346. https://doi.org/10.18280/acsm.430510
133	Karthik, D.E., Mrudunayani, P., Babu, S.V.V.K.	Influence of magnetic water on self-compacting concrete using sulphate resisting cement	magnetic water, micro steel fibers, metakaolin, compressive strength, tensile strength, self-compacting concrete, sulphate resisting cement	43, 5, 347-352	https://doi.org/10.18280/acsm.430511	Karthik, D.E., Mrudunayani, P., Babu, S.V.V.K. (2019). Influence of magnetic water on self-compacting concrete using sulphate resisting cement. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 347-352. https://doi.org/10.18280/acsm.430511
134	Wang, Y.H., Wu, Y.P., Zheng, C.C., Luo, Z.H.Z., Zhou, M.	Influence of foaming agent on technical performance of ceramsite aerated concrete blocks	ceramsite aerated concrete (CAC) blocks, foaming agent, mix ratio, technical performance	43, 5, 353-357	https://doi.org/10.18280/acsm.430512	Wang, Y.H., Wu, Y.P., Zheng, C.C., Luo, Z.H.Z., Zhou, M. (2019). Influence of foaming agent on technical performance of ceramsite aerated concrete blocks. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 5, pp. 353-357. https://doi.org/10.18280/acsm.430512
135	Pouliu, A., Mathiou, C., Karantzalis, A.	Electrochemical study of MoTaNbVTi high entropy alloy in aqueous environments	electrochemistry, hank solution, high entropy alloys, sea water solution	43, 4, 199-205	https://doi.org/10.18280/acsm.430401	Pouliu, A., Mathiou, C., Karantzalis, A. (2019). Electrochemical study of MoTaNbVTi high entropy alloy in aqueous environments. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 199-205. https://doi.org/10.18280/acsm.430401
136	Wang, Q.H.	Influence of mud content in sand and gravel on water reducer in concrete	mud content, water reducer, concrete, compressive strength, porosity	43, 4, 207-211	https://doi.org/10.18280/acsm.430402	Wang, Q.H. (2019). Influence of mud content in sand and gravel on water reducer in concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 207-211. https://doi.org/10.18280/acsm.430402
137	Subandi, Cahyono, R.H., Kusuma, C., Ansan, M.N.	Artificial aggregate lightweight structural	artificial ingredients 1, ironwood 2, lightweight 2, concrete 4, material 5	43, 4, 213-216	https://doi.org/10.18280/acsm.430403	Subandi, Cahyono, R.H., Kusuma, C., Ansan, M.N. (2019). Artificial aggregate lightweight structural. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 213-216. https://doi.org/10.18280/acsm.430403
138	Ren, C., Li, K.Q., Ni, W., Zhang, S.Q.	Preparation of mine filling material from steel slag mud	Steel Slag Mud, Mine Filling Material, X-Ray diffraction (XRD), Fourier-Transform Infrared Spectroscopy (FT-IR), Nuclear Magnetic Resonance (NMR)	43, 4, 217-224	https://doi.org/10.18280/acsm.430404	Ren, C., Li, K.Q., Ni, W., Zhang, S.Q. (2019). Preparation of mine filling material from steel slag mud. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 217-224. https://doi.org/10.18280/acsm.430404
139	Agarwal, M., Dixit, A., Dwivedi, S.P., Mishra, R.K.	Utilization of waste saw dust from wood industry in development of glass fiber epoxy resin hybrid green composite material	waste sawdust, green glass fibre composite, water absorption, soil degradation, acid corrosion test	43, 4, 225-234	https://doi.org/10.18280/acsm.430405	Agarwal, M., Dixit, A., Dwivedi, S.P., Mishra, R.K. (2019). Utilization of waste saw dust from wood industry in development of glass fiber epoxy resin hybrid green composite material. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 225-234. https://doi.org/10.18280/acsm.430405
140	Chen, C.Y., Wang, J., Gao, Y.C.	Broad-spectrum tuning of surface plasmon resonance using palladium nanorods	palladium nanorods, absorption spectra, Surface Plasmon Resonance (SPR), Finite-Difference Time-Domain (FDTD) method	43, 4, 235-240	https://doi.org/10.18280/acsm.430406	Chen, C.Y., Wang, J., Gao, Y.C. (2019). Broad-spectrum tuning of surface plasmon resonance using palladium nanorods. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 235-240. https://doi.org/10.18280/acsm.430406
141	Ourrad, S., Houmadi, Y., Ziadi, A., Mamoune, S.M.A., Lousdad, A.	Probabilistic analysis for estimating the hydrogen desorption time from steel wire rods using monte Carlo simulation	Ductility, Hydrogen Embrittlement, Spatial Variability, Stochastic Method, Karhunen-Loève	43, 4, 241-248	https://doi.org/10.18280/acsm.430407	Ourrad, S., Houmadi, Y., Ziadi, A., Mamoune, S.M.A., Lousdad, A. (2019). Probabilistic analysis for estimating the hydrogen desorption time from steel wire rods using monte Carlo simulation. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 241-248. https://doi.org/10.18280/acsm.430407
142	Zhu, J., Zheng, W.Z., Sneed, L.H., Huang, Y., Xu, C.H.	Mechanical properties of plant fibers reinforced alkali-activated slag cementitious material at high temperature	Alkali-Activated Slag Cementitious Material (AASCM), Ground-Granulated Blast-Furnace Slag (GGBFS), high temperature, mechanical properties, plant fiber	43, 4, 249-255	https://doi.org/10.18280/acsm.430408	Zhu, J., Zheng, W.Z., Sneed, L.H., Huang, Y., Xu, C.H. (2019). Mechanical properties of plant fibers reinforced alkali-activated slag cementitious material at high temperature. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 249-255. https://doi.org/10.18280/acsm.430408
143	Rao, T.E., Krishna, G.R., Kumar, M.V.	Investigation of microstructure and mechanical properties of MIG welded mild steel plates	metal inert gas welding, heat affected zone, steel plates is 2062, microstructure analysis, impact test	43, 4, 257-263	https://doi.org/10.18280/acsm.430409	Rao, T.E., Krishna, G.R., Kumar, M.V. (2019). Investigation of microstructure and mechanical properties of MIG welded mild steel plates. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 257-263. https://doi.org/10.18280/acsm.430409
144	Rachid, C., Lebon, F., Rosu, I., Mohammed, M.	Numerical study of the surface roughness, thermal conductivity of the contact materials and interstitial fluid convection coefficient effect on the thermal contact conductance	thermal contact conductance, thermal conductivity, convection coefficient, roughness, interstitial fluid	43, 4, 265-271	https://doi.org/10.18280/acsm.430410	Rachid, C., Lebon, F., Rosu, I., Mohammed, M. (2019). Numerical study of the surface roughness, thermal conductivity of the contact materials and interstitial fluid convection coefficient effect on the thermal contact conductance. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 265-271. https://doi.org/10.18280/acsm.430410
145	Chaudhury, P., Samantaray, S.	Electro thermal modelling of electrical discharge machining of Be-Cu alloy by varying fraction of energy	finite element simulation, electrical discharge machining, material removal rate, plasma flushing efficiency	43, 4, 273-279	https://doi.org/10.18280/acsm.430411	Chaudhury, P., Samantaray, S. (2019). Electro thermal modelling of electrical discharge machining of Be-Cu alloy by varying fraction of energy. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 4, pp. 273-279. https://doi.org/10.18280/acsm.430411
146	Ehadi, B.M., Abdechafik, H., Bachir, G., Aissa, B.H.	Influence of plastic deformation of copper on the behavior of electromagnetic shielding	plastic deformation, electric field, dislocation, shielding, TEM cell, electrical conductivity	43, 3, 135-140	https://doi.org/10.18280/acsm.430301	Ehadi, B.M., Abdechafik, H., Bachir, G., Aissa, B.H. (2019). Influence of plastic deformation of copper on the behavior of electromagnetic shielding. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 135-140. https://doi.org/10.18280/acsm.430301
147	Catizzone, E., Bonura, G., Migliori, M., Braccio, G., Frusteri, F., Giordano, G.	Direct CO ₂ -to-dimethyl ether hydrogenation over CuZnZr/zeolite hybrid catalyst: new evidences on the interaction between acid and metal sites	CO ₂ recycling, dimethyl ether, heterogeneous catalysis, zeolites, nanostructured catalysts, Lewis/Bronsted acid sites, industrial chemistry processes	43, 3, 141-149	https://doi.org/10.18280/acsm.430302	Catizzone, E., Bonura, G., Migliori, M., Braccio, G., Frusteri, F., Giordano, G. (2019). Direct CO ₂ -to-dimethyl ether hydrogenation over CuZnZr/zeolite hybrid catalyst: new evidences on the interaction between acid and metal sites. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 141-149. https://doi.org/10.18280/acsm.430302
148	Zheng, M.L., Gao, S.Y., Chen, J.G., Zhang, W., Li, J.N., Chen, B.L.	Impacts of element diffusion on bond breakage of cemented carbide cutter	cemented carbide, 2.25Cr1Mo0.25V, Molecular Dynamics (MD), element diffusion, bond breakage, bonding energy	43, 3, 151-158	https://doi.org/10.18280/acsm.430303	Zheng, M.L., Gao, S.Y., Chen, J.G., Zhang, W., Li, J.N., Chen, B.L. (2019). Impacts of element diffusion on bond breakage of cemented carbide cutter. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 151-158. https://doi.org/10.18280/acsm.430303
149	Zouzou, C., Keddam, M.	Boriding kinetics of FeB and Fe ₃ B layers on AISI M2 steel by the integral diffusion model	boronizing, borides, incubation times, fick's laws, integral diffusion model	43, 3, 159-164	https://doi.org/10.18280/acsm.430304	Zouzou, C., Keddam, M. (2019). Boriding kinetics of FeB and Fe ₃ B layers on AISI M2 steel by the integral diffusion model. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 159-164. https://doi.org/10.18280/acsm.430304
150	Ma, Y.H., Ding, S.L., Xin, D.S., Ma, F., Xia, R.T.	Optimization of hot-pressing technique for genuine full-grain leather made of natural rubber latex	natural rubber latex, genuine full-grain leather (GFGL), hot-pressing technique, physical-mechanical properties	43, 3, 165-172	https://doi.org/10.18280/acsm.430305	Ma, Y.H., Ding, S.L., Xin, D.S., Ma, F., Xia, R.T. (2019). Optimization of hot-pressing technique for genuine full-grain leather made of natural rubber latex. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 165-172. https://doi.org/10.18280/acsm.430305

151	Mohapatra, S., Sarangi, H., Mohanty, U.K., Rath, P.	Certain aspects of particle distribution in castings formed in rotating moulds	dispersal of particles, centrifugal force, viscosity profile, temperature profile, particle-rich-zone, graded properties, analytical findings	43, 3, 173-181	https://doi.org/10.18280/acsm.430306	Mohapatra, S., Sarangi, H., Mohanty, U.K., Rath, P. (2019). Certain aspects of particle distribution in castings formed in rotating moulds. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 173-181. https://doi.org/10.18280/acsm.430306
152	Zhong, R.C., Peng, Z.B., Jiang, H.D.	Design of diamond drill bits with primary and secondary abrasives	primary and secondary abrasives, impregnated diamond drill bit, micron diamond powder, drilling efficiency, service life	43, 3, 183-188	https://doi.org/10.18280/acsm.430307	Zhong, R.C., Peng, Z.B., Jiang, H.D. (2019). Design of diamond drill bits with primary and secondary abrasives. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 183-188. https://doi.org/10.18280/acsm.430307
153	Reddy Bellum, R., Muniraj, K., Madduru, S.R.C.	Empirical relationships on mechanical properties of class-F fly ash and GGBS based geopolymer concrete	fly ash, GGBS, modulus of elasticity, geopolymer concrete, ambient curing	43, 3, 189-197	https://doi.org/10.18280/acsm.430308	Reddy Bellum, R., Muniraj, K., Madduru, S.R.C. (2019). Empirical relationships on mechanical properties of class-F fly ash and GGBS based geopolymer concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 3, pp. 189-197. https://doi.org/10.18280/acsm.430308
154	Hadjadi, S., Boutarfaia, A., Zenkhr, L.	Structural and dielectric study of a PLNZT ceramic material doped with chromium	perovskites, doped PZT, dielectric, XRD, dielectric response	43, 2, 69-74	https://doi.org/10.18280/acsm.430201	Hadjadi, S., Boutarfaia, A., Zenkhr, L. (2019). Structural and dielectric study of a PLNZT ceramic material doped with chromium. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 69-74. https://doi.org/10.18280/acsm.430201
155	Sonali Sri Durga, C., Ruben, N.	Assessment of various self healing materials to enhance the durability of concrete structures	bio-concrete, concrete properties, cracking, eco-friendly, mechanisms, self healing	43, 2, 75-79	https://doi.org/10.18280/acsm.430202	Sonali Sri Durga, C., Ruben, N. (2019). Assessment of various self healing materials to enhance the durability of concrete structures. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 75-79. https://doi.org/10.18280/acsm.430202
156	Chen, F.Q., Huang, C.S., Wang, J., Gao, D.Y.	Experimental analysis on flexural-tensile performance of polyester fiber asphalt concrete	polyester fiber asphalt concrete, flexural-tensile strength, fiber aspect ratio, fiber volume ratio, fiber content feature parameter (FCFP)	43, 2, 81-88	https://doi.org/10.18280/acsm.430203	Chen, F.Q., Huang, C.S., Wang, J., Gao, D.Y. (2019). Experimental analysis on flexural-tensile performance of polyester fiber asphalt concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 81-88. https://doi.org/10.18280/acsm.430203
157	Zheng, B., Sui, J.L., Tan, Y.H., Zhang, L.L.	Thermal performance analysis of exterior wall materials of huizhou residential buildings adapted to local climate	climatic environment, adaptability, huizhou residential buildings, structure of exterior wall material, thermal performance	43, 2, 89-94	https://doi.org/10.18280/acsm.430204	Zheng, B., Sui, J.L., Tan, Y.H., Zhang, L.L. (2019). Thermal performance analysis of exterior wall materials of huizhou residential buildings adapted to local climate. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 89-94. https://doi.org/10.18280/acsm.430204
158	Aday, A.J.	Analysis of springback behavior in steel and aluminum sheets using FEM	finite element analysis, sheet metal, springback, die profile radius	43, 2, 95-98	https://doi.org/10.18280/acsm.430205	Aday, A.J. (2019). Analysis of springback behavior in steel and aluminum sheets using FEM. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 95-98. https://doi.org/10.18280/acsm.430205
159	Venkatesh, C., Chand, M.S.R., Nerella, R.	A state of the art on red mud as a substitutional cementitious material	substitutional cementitious material, red mud, bayer process, microstructure characterization, chloride ions diffusion, compressive strength	43, 2, 99-106	https://doi.org/10.18280/acsm.430206	Venkatesh, C., Chand, M.S.R., Nerella, R. (2019). A state of the art on red mud as a substitutional cementitious material. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 99-106. https://doi.org/10.18280/acsm.430206
160	Zhang, J.H., Wang, S.Q., Liu, L.Y., Zhang, X., Bi, B., Fu, D., Li, Z.Y.	Combined treatment of coking wastewater with N-Ce-TiO ₂ and modified inferior coal char	N-Ce-TiO ₂ , nanomaterials, coking wastewater, photocatalysis, modified char, biomass	43, 2, 107-114	https://doi.org/10.18280/acsm.430207	Zhang, J.H., Wang, S.Q., Liu, L.Y., Zhang, X., Bi, B., Fu, D., Li, Z.Y. (2019). Combined treatment of coking wastewater with N-Ce-TiO ₂ and modified inferior coal char. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 107-114. https://doi.org/10.18280/acsm.430207
161	Singh, A., Yadav, H.L., Kumar, S.	Effect of temperature on fracture parameters of aluminum alloy Al 6061: A numerical study	crack mouth opening displacement, crack tip opening displacement, stress intensity factor, ANSYS, side edge notch bend specimen	43, 2, 115-118	https://doi.org/10.18280/acsm.430208	Singh, A., Yadav, H.L., Kumar, S. (2019). Effect of temperature on fracture parameters of aluminum alloy Al 6061: A numerical study. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 115-118. https://doi.org/10.18280/acsm.430208
162	Peng, X.L., Sun, C., Cao, Y.B.	Tensile properties of remolded loess and undisturbed loess	remolded loess, undisturbed loess, water content, tensile strength	43, 2, 119-123	https://doi.org/10.18280/acsm.430209	Peng, X.L., Sun, C., Cao, Y.B. (2019). Tensile properties of remolded loess and undisturbed loess. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 119-123. https://doi.org/10.18280/acsm.430209
163	Nurulla, S., Mustafa, S., Reddy, Y.B.S.	Investigation on mechanical properties of lightweight concrete partially replacing sawdust to fine aggregate	environment, mechanical properties, saw-dust, lightweight concrete, eco-friendly	43, 2, 125-128	https://doi.org/10.18280/acsm.430210	Nurulla, S., Mustafa, S., Reddy, Y.B.S. (2019). Investigation on mechanical properties of lightweight concrete partially replacing sawdust to fine aggregate. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 125-128. https://doi.org/10.18280/acsm.430210
164	Verma, R., Jaiswal, A., Avchar, A.	A numerical method approach for analyzing the effects of joint orientation on stability of open-stope in metalliferous mines	metal mining, stope, joint orientation, numerical modeling, finite difference, open stoping	43, 2, 129-134	https://doi.org/10.18280/acsm.430211	Verma, R., Jaiswal, A., Avchar, A. (2019). A numerical method approach for analyzing the effects of joint orientation on stability of open-stope in metalliferous mines. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 2, pp. 129-134. https://doi.org/10.18280/acsm.430211
165	Bouteldja, M., Mezaache, E.H., Laouer, A.	Numerical study of the solidification of phase change materials in a rectangular cavity: Effects of convection and aspect ratio	heat storage, phase change material, enthalpy method, heat exchanger, liquid solid interface	43, 1, 1-9	https://doi.org/10.18280/acsm.430101	Bouteldja, M., Mezaache, E.H., Laouer, A. (2019). Numerical study of the solidification of phase change materials in a rectangular cavity: Effects of convection and aspect ratio. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 1-9. https://doi.org/10.18280/acsm.430101
166	Benarrache, S., Benchatti, T., Benhorma, H.A.	Formation and dissolution of carbides and nitrides in the weld seam of X70 steel by the effects of heat treatments	HSLA steels, X70, seam, Weld Metal Zone WMZ, the heat affected zone HAZ, X-ray diffraction, carbide and nitride, diffusion, backscatter	43, 1, 11-16	https://doi.org/10.18280/acsm.430102	Benarrache, S., Benchatti, T., Benhorma, H.A. (2019). Formation and dissolution of carbides and nitrides in the weld seam of X70 steel by the effects of heat treatments. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 11-16. https://doi.org/10.18280/acsm.430102
167	Du, E.X., Wang, Y., Sun, J.H., Yang, S.Q.	Experimental analysis on ductility of polyvinyl alcohol fibre reinforced concrete frame joints	Polyvinyl Alcohol (PVA) fibre reinforced concrete, frame joint, ductility, energy dissipation, hysteresis loop	43, 1, 17-22	https://doi.org/10.18280/acsm.430103	Du, E.X., Wang, Y., Sun, J.H., Yang, S.Q. (2019). Experimental analysis on ductility of polyvinyl alcohol fibre reinforced concrete frame joints. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 17-22. https://doi.org/10.18280/acsm.430103
168	Kulkarni, H.B., Kulkarni, R.M., Nadakatti, M.M., Gokak, G.D., Deshpande, A.S.	Thermal conductivity enhancement by Al ₂ O ₃ @Cu ₂ core@shell nanoparticle suspensions in nanofluid coolant	synthesis, alumina, hamilton crosser, heat dissipation, metal-cutting nanotechnology, machining	43, 1, 23-28	https://doi.org/10.18280/acsm.430104	Kulkarni, H.B., Kulkarni, R.M., Nadakatti, M.M., Gokak, G.D., Deshpande, A.S. (2019). Thermal conductivity enhancement by Al ₂ O ₃ @Cu ₂ core@shell nanoparticle suspensions in nanofluid coolant. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 23-28. https://doi.org/10.18280/acsm.430104
169	Sharma, A., Mishra, A.K., Choudhary, B.S.	Impact of blast design parameters on blasted muckpile profile in building stone quarries	stone quarries, drill-blast design parameters, muck profile, throw, drop, lateral spread	43, 1, 29-36	https://doi.org/10.18280/acsm.430105	Sharma, A., Mishra, A.K., Choudhary, B.S. (2019). Impact of blast design parameters on blasted muckpile profile in building stone quarries. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 29-36. https://doi.org/10.18280/acsm.430105

170	Ji, J., Liu, X.S., Tan, S.Y., Wang, M.N., Ni, W.	Preparation and performance analysis of foam-concrete sound absorbing material prepared purely from solid wastes	foam-concrete, sound absorption performance, industrial solid waste, compressive strength	43, 1, 37-42	https://doi.org/10.18280/acsm.430106	Ji, J., Liu, X.S., Tan, S.Y., Wang, M.N., Ni, W. (2019). Preparation and performance analysis of foam-concrete sound absorbing material prepared purely from solid wastes. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 37-42. https://doi.org/10.18280/acsm.430106
171	Bayareh, M., Nourbakhsh, A., Rouzbahani, F., Tafreshi, M.K.	Simulation of sand particles flow using a weakly compressible smoothed particle hydrodynamics method (WCSPH)	Smoothed Particle Hydrodynamics (SPH), non-newtonian fluid, weakly compressibility, sandy beach, multi phase flow, interpolation particle	43, 1, 43-51	https://doi.org/10.18280/acsm.430107	Bayareh, M., Nourbakhsh, A., Rouzbahani, F., Tafreshi, M.K. (2019). Simulation of sand particles flow using a weakly compressible smoothed particle hydrodynamics method (WCSPH). <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 43-51. https://doi.org/10.18280/acsm.430107
172	Yao, Y.H., Wang, Y.H., Liu, Z.W., Zhu, F.P.	Effects of replacing fly ash with cutting mud on the performance of ceramsite aerated concrete	Ceramsite Aerated Concrete (CAC), cutting mud, workability, compressive strength, dry density	43, 1, 53-57	https://doi.org/10.18280/acsm.430108	Yao, Y.H., Wang, Y.H., Liu, Z.W., Zhu, F.P. (2019). Effects of replacing fly ash with cutting mud on the performance of ceramsite aerated concrete. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 53-57. https://doi.org/10.18280/acsm.430108
173	Amar, Z.H., Chabira, S.F., Sebaa, M., Ahmed, B.	Structural changes undergone during thermal aging and/or processing of Unstabilized, dry-blend and rigid PVC, investigated by FTIR-ATR and curve fitting	PVC, aging, ATR-FTIR, curve fitting, mechanical properties	43, 1, 59-68	https://doi.org/10.18280/acsm.430109	Amar, Z.H., Chabira, S.F., Sebaa, M., Ahmed, B. (2019). Structural changes undergone during thermal aging and/or processing of Unstabilized, dry-blend and rigid PVC, investigated by FTIR-ATR and curve fitting. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 43, No. 1, pp. 59-68. https://doi.org/10.18280/acsm.430109
174	Moraci, F., Fazio, C., Errigo, M.F.	Smart tools for energy resilient city	urban performance, smart resilient city, smart tools	42, 4, 473-484	https://doi.org/10.3166/ACSM.42.473-484	Moraci, F., Fazio, C., Errigo, M.F. (2018). Smart tools for energy resilient city. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 473-484. https://doi.org/10.3166/ACSM.42.473-484
175	Costa, P., Dell'Omo, P.P., Froschia, S.L.	Multistage milling and classification for improving both pellet quality and biogas production from hazelnut and olive pruning	anaerobic digestion, biogas, EN ISO 17225-2, pellet, pruning	42, 4, 485-501	https://doi.org/10.3166/ACSM.42.485-501	Costa, P., Dell'Omo, P.P., Froschia, S.L. (2018). Multistage milling and classification for improving both pellet quality and biogas production from hazelnut and olive pruning. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 485-501. https://doi.org/10.3166/ACSM.42.485-501
176	Liu, Y., Zhan, M., Weng, G.Y., Wang, S.L.	Semi-active optimization control of space grid model with self-reset piezoelectric friction damper	Genetic Algorithm (GA), optimal layout, Piezoelectric Friction Damper (PFD), semi-active control	42, 4, 503-515	https://doi.org/10.3166/ACSM.42.503-515	Liu, Y., Zhan, M., Weng, G.Y., Wang, S.L. (2018). Semi-active optimization control of space grid model with self-reset piezoelectric friction damper. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 503-515. https://doi.org/10.3166/ACSM.42.503-515
177	Vizzari, D., Puntoriè, P., Praticò, F., Fiamma, V., Barbaro, G.	Energy harvesting from solar and permeable pavements: A feasibility study	solar pavement, drainability, rainfall	42, 4, 517-534	https://doi.org/10.3166/ACSM.42.517-534	Vizzari, D., Puntoriè, P., Praticò, F., Fiamma, V., Barbaro, G. (2018). Energy harvesting from solar and permeable pavements: A feasibility study. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 517-534. https://doi.org/10.3166/ACSM.42.517-534
178	Peng, X.L., Fan, W., Sun, C., Hao, G., Zhang, Y.	Physical and mechanical properties of interface transition zone between loess and paleosol	interface transition zone, loess paleosol, large shear test, shear characteristics	42, 4, 535-545	https://doi.org/10.3166/ACSM.42.535-545	Peng, X.L., Fan, W., Sun, C., Hao, G., Zhang, Y. (2018). Physical and mechanical properties of interface transition zone between loess and paleosol. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 535-545. https://doi.org/10.3166/ACSM.42.535-545
179	Dharmana, T., Kola, K.R., Bonnada, N.N.	Nano SiO ₂ catalyzed synthesis of Imidazo[1,2-a]pyridines	nano SiO ₂ , microwave irradiation, imidazo [1,2-a] pyridines, phenacyl bromide	42, 4, 547-553	https://doi.org/10.3166/ACSM.42.547-553	Dharmana, T., Kola, K.R., Bonnada, N.N. (2018). Nano SiO ₂ catalyzed synthesis of Imidazo[1,2-a]pyridines. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 547-553. https://doi.org/10.3166/ACSM.42.547-553
180	Murugan, S.S.	Processing and characterisation of LM30 alloy + graphite reinforced composite through gravity and centrifugal casting	centrifugal casting, dendritic structure, FCGMs, gravity casting	42, 4, 555-564	https://doi.org/10.3166/ACSM.42.555-564	Murugan, S.S. (2018). Processing and characterisation of LM30 alloy + graphite reinforced composite through gravity and centrifugal casting. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 555-564. https://doi.org/10.3166/ACSM.42.555-564
181	Lou, P.J., Liang, S.L., Feng, M.M., Bu, Y.S., Huang, X.Y.	Load relief rupture mechanism based on particle flow rocklike material	particle flow, unload, mesoscopic rupture mechanism	42, 4, 565-576	https://doi.org/10.3166/ACSM.42.565-576	Lou, P.J., Liang, S.L., Feng, M.M., Bu, Y.S., Huang, X.Y. (2018). Load relief rupture mechanism based on particle flow rocklike material. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 565-576. https://doi.org/10.3166/ACSM.42.565-576
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183	Nithish Reddy, P., Murugesan, K., Koushik, V.	Numerical analysis of MHD double diffusive nano-fluid convection in a cavity using FEM	double diffusive convection, magnetic field, nano fluid, and cavity	42, 4, 589-612	https://doi.org/10.3166/ACSM.42.589-612	Nithish Reddy, P., Murugesan, K., Koushik, V. (2018). Numerical analysis of MHD double diffusive nano-fluid convection in a cavity using FEM. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 4, pp. 589-612. https://doi.org/10.3166/ACSM.42.589-612
184	Shiriny, A., Bayareh, M.	Numerical study of heat transfer and pressure drop in a fuel cell with porous material	fuel cell, porous material, heat transfer, pressure drop	42, 3, 323-334	https://doi.org/10.3166/ACSM.42.323-334	Shiriny, A., Bayareh, M. (2018). Numerical study of heat transfer and pressure drop in a fuel cell with porous material. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 323-334. https://doi.org/10.3166/ACSM.42.323-334
185	Ferrah, A., Bouaziz, M.N.	Modeling of double diffusion with MHD on an inclined flat plate solar captor with non-uniform boundary conditions. Bouyancy ratio, Prandtl, Schmidt and Eckert numbers effects	MHD, nombres de schmidt et d' Eckert, reaction chimique, rayonnement, transferts de chaleur et de masse, conditions aux limites	42, 3, 335-346	https://doi.org/10.3166/ACSM.42.335-346	Ferrah, A., Bouaziz, M.N. (2018). Modeling of double diffusion with MHD on an inclined flat plate solar captor with non-uniform boundary conditions. Bouyancy ratio, Prandtl, Schmidt and Eckert numbers effects. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 335-346. https://doi.org/10.3166/ACSM.42.335-346
186	Zhang, J.T., Cai, D., Wang, T.K., Hu, Q., Li, K.M.	Experimental analysis on the effects of artificial marble waste powder on concrete performance	artificial marble waste powder, concrete, water consumption, working performance, mechanical properties	42, 3, 347-362	https://doi.org/10.3166/ACSM.42.347-362	Zhang, J.T., Cai, D., Wang, T.K., Hu, Q., Li, K.M. (2018). Experimental analysis on the effects of artificial marble waste powder on concrete performance. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 347-362. https://doi.org/10.3166/ACSM.42.347-362
187	Chauhan, P.R., Kumar, R.	A comprehensive review on heat transfer enhancement and pressure drop characteristics of nanofluid flow through micro-channels	nanofluid, micro-channel, heat transfer enhancement, pressure drop	42, 3, 363-385	https://doi.org/10.3166/ACSM.42.363-385	Chauhan, P.R., Kumar, R. (2018). A comprehensive review on heat transfer enhancement and pressure drop characteristics of nanofluid flow through micro-channels. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 363-385. https://doi.org/10.3166/ACSM.42.363-385
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189	Italiano, C., Pino, L., Laganà, M., Vita, A.	Ceramic monolith- and foam-structured catalysts via in-situ combustion deposition for energetic applications	monolith, open-cell foam, methanation, reforming, structured catalysts	42, 3, 405-418	https://doi.org/10.3166/ACSM.42.405-418	Italiano, C., Pino, L., Laganà, M., Vita, A. (2018). Ceramic monolith- and foam-structured catalysts via in-situ combustion deposition for energetic applications. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 405-418. https://doi.org/10.3166/ACSM.42.405-418
190	Zheng, L., Zhou, X., Zhang, X.Y.	Effects of calcination temperature and curing time on bending strength and microstructure of hydrothermally treated mordenite products	mordenite, hydrothermal treatment, bending strength, microstructure, self-humidity control	42, 3, 419-427	https://doi.org/10.3166/ACSM.42.419-427	Zheng, L., Zhou, X., Zhang, X.Y. (2018). Effects of calcination temperature and curing time on bending strength and microstructure of hydrothermally treated mordenite products. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 419-427. https://doi.org/10.3166/ACSM.42.419-427
191	Michele, B., Fortunato, C., Vincenzo, S.S.	Fatigue life investigation on wind blades	composite materials, wind blades damaging, fatigue failure	42, 3, 429-440	https://doi.org/10.3166/ACSM.42.429-440	Michele, B., Fortunato, C., Vincenzo, S.S. (2018). Fatigue life investigation on wind blades. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 429-440. https://doi.org/10.3166/ACSM.42.429-440
192	Prestipino, M., Chiodo, V., Maisano, S., Brusca, S., Urbani, F., Galvagno, A.	Hydrogen production from residual biomass via air-steam gasification for a bioenergy-based economy in Sicily	bioenergy, hydrogen, biomass gasification, citrus peel	42, 3, 441-452	https://doi.org/10.3166/ACSM.42.441-452	Prestipino, M., Chiodo, V., Maisano, S., Brusca, S., Urbani, F., Galvagno, A. (2018). Hydrogen production from residual biomass via air-steam gasification for a bioenergy-based economy in Sicily. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 441-452. https://doi.org/10.3166/ACSM.42.441-452
193	Wang, W., Ye, P.F., Zhou, X.L., Wang, C.L., Huo, Z.K., Zhang, K.F., Meng, X.Q.	Effects of reductant type on coal-based direct reduction of iron ore tailings	iron ore tailings, coal-based direct reduction, reductant type, roasting	42, 3, 453-466	https://doi.org/10.3166/ACSM.42.453-466	Wang, W., Ye, P.F., Zhou, X.L., Wang, C.L., Huo, Z.K., Zhang, K.F., Meng, X.Q. (2018). Effects of reductant type on coal-based direct reduction of iron ore tailings. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 3, pp. 453-466. https://doi.org/10.3166/ACSM.42.453-466
194	Souad, T., Mounir, Z., Abdelwahab, B., Salah, H.	Numerical simulation EF/VOF to study the influence of the surface condition of the formation of the slats of a nickel deposit produced by plasma spraying	finite element, formation of splats, numerical simulation, plasma spraying, volume of fluid (VOF)	42, 2, 165-180	https://doi.org/10.3166/ACSM.42.165-180	Souad, T., Mounir, Z., Abdelwahab, B., Salah, H. (2018). Numerical simulation EF/VOF to study the influence of the surface condition of the formation of the slats of a nickel deposit produced by plasma spraying. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 2, pp. 165-180. https://doi.org/10.3166/ACSM.42.165-180
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196	Wang, J.L., Zhang, S.H., Peng, F.F.	Influence mechanism of hard brittle grits on the drilling performance of diamond bit	diamond bit, hard brittle grits, hard rock drilling, wear morphologies	42, 2, 209-220	https://doi.org/10.3166/ACSM.42.209-220	Wang, J.L., Zhang, S.H., Peng, F.F. (2018). Influence mechanism of hard brittle grits on the drilling performance of diamond bit. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 2, pp. 209-220. https://doi.org/10.3166/ACSM.42.209-220
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198	Zuo, H.L., Li, Y.S., Di, J., Guo, N.	Lateral performance of timber shear walls reinforced by prestressed diagonal cross bars	diagonal cross-bar, prestress, monotonic loading test, lateral performance, deformation behavior	42, 2, 233-243	https://doi.org/10.3166/ACSM.42.233-243	Zuo, H.L., Li, Y.S., Di, J., Guo, N. (2018). Lateral performance of timber shear walls reinforced by prestressed diagonal cross bars. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 2, pp. 233-243. https://doi.org/10.3166/ACSM.42.233-243
199	Sotehi, N., Tabet, I., Chaker, A.	Combined experimental and numerical characterization of thermal properties of lightweight concretes used in construction	lightweight concrete, construction materials, thermal properties, heat and mass transfer	42, 2, 245-258	https://doi.org/10.3166/ACSM.42.245-258	Sotehi, N., Tabet, I., Chaker, A. (2018). Combined experimental and numerical characterization of thermal properties of lightweight concretes used in construction. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 2, pp. 245-258. https://doi.org/10.3166/ACSM.42.245-258
200	Qin, H.Y., Ouyang, Z.H., Ti, Z.Y., Zhang, F.	Experimental analysis on the optimal proportion of paste filler for a coal mine in China	filler strength, orthogonal test, multivariate statistical analysis	42, 2, 259-268	https://doi.org/10.3166/ACSM.42.259-268	Qin, H.Y., Ouyang, Z.H., Ti, Z.Y., Zhang, F. (2018). Experimental analysis on the optimal proportion of paste filler for a coal mine in China. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 2, pp. 259-268. https://doi.org/10.3166/ACSM.42.259-268
201	Saud, A.N., Majidi, H.S., Saud, S.N.	Optimization of ceramic thermal insulation behavior using the genetic algorithm	thermal insulation, semi-dry pressing, alumina, genetic algorithm	42, 2, 269-279	https://doi.org/10.3166/ACSM.42.269-279	Saud, A.N., Majidi, H.S., Saud, S.N. (2018). Optimization of ceramic thermal insulation behavior using the genetic algorithm. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 2, pp. 269-279. https://doi.org/10.3166/ACSM.42.269-279
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204	Swain, K., Parida, S.K., Dash, G.C.	MHD flow of viscoelastic nanofluid over a stretching sheet in a porous medium with heat source and chemical reaction	MHD, viscoelastic, nanofluid, chemical reaction, heat source/sink	42, 1, 7-21	https://doi.org/10.3166/ACSM.42.7-21	Swain, K., Parida, S.K., Dash, G.C. (2018). MHD flow of viscoelastic nanofluid over a stretching sheet in a porous medium with heat source and chemical reaction. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 7-21. https://doi.org/10.3166/ACSM.42.7-21
205	Komolafe, C.A., Waheed, M.A.	Design and fabrication of a forced convection solar dryer integrated with heat storage materials	drying, solar dryer, forced convection, cocoa beans, heat storage materials	42, 1, 23-39	https://doi.org/10.3166/ACSM.42.23-39	Komolafe, C.A., Waheed, M.A. (2018). Design and fabrication of a forced convection solar dryer integrated with heat storage materials. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 23-39. https://doi.org/10.3166/ACSM.42.23-39
206	Qiu, C.J., Wang, S., Liu, H., Huang, J.	In-situ pull-out tests on soil-reinforcement interface properties of reinforced soil slopes	reinforced soil slope, geogrid, in-situ pull-out test, Soil-Reinforcement Interface (SRI), S-curve	42, 1, 41-56	https://doi.org/10.3166/ACSM.42.41-56	Qiu, C.J., Wang, S., Liu, H., Huang, J. (2018). In-situ pull-out tests on soil-reinforcement interface properties of reinforced soil slopes. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 41-56. https://doi.org/10.3166/ACSM.42.41-56
207	Mamatha E., Reddy C.S., Sharma R.	Effects of viscosity variation and thermal effects in squeeze films	squeeze film, reynolds equation, journal bearing, parallel and circular plates	42, 1, 57-74	https://doi.org/10.3166/ACSM.42.57-74	Mamatha E., Reddy C.S., Sharma R. (2018). Effects of viscosity variation and thermal effects in squeeze films. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 57-74. https://doi.org/10.3166/ACSM.42.57-74

208	Yang, P.Y., Wu, X.E., Chen, J.H.	Effect of rock mass intactness on tunnel safety and stability in blasting excavation	hydropower plant, pressure diversion tunnel, numerical simulation, the intactness index, blasting vibration velocity, acoustic wave velocity	42, 1, 75-101	https://doi.org/10.3166/ACSM.42.75-101	Yang, P.Y., Wu, X.E., Chen, J.H. (2018). Effect of rock mass intactness on tunnel safety and stability in blasting excavation. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 75-101. https://doi.org/10.3166/ACSM.42.75-101
209	Vandurangi, S.K., Emami, S., Sharma, K.V., Veldi, G.	Computational analysis to determine the heat transfer coefficients for SiO ₂ /60EGW and SiO ₂ /40EGW based nano-fluids	heat transfer coefficient, nanofluids, CFD, heat transfer enhancement	42, 1, 103-114	https://doi.org/10.3166/ACSM.42.103-114	Vandurangi, S.K., Emami, S., Sharma, K.V., Veldi, G. (2018). Computational analysis to determine the heat transfer coefficients for SiO ₂ /60EGW and SiO ₂ /40EGW based nano-fluids. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 103-114. https://doi.org/10.3166/ACSM.42.103-114
210	Maati A., Ouakdi E.H., Tabourot L., Balland P., Demouche M.	Modelling of the thermomechanical behaviour of FCC metals under various conditions	dislocation density, dynamic recovery, strain hardening, subgrain size, thermomechanical behaviour	42, 1, 115-127	https://doi.org/10.3166/ACSM.42.115-127	Maati A., Ouakdi E.H., Tabourot L., Balland P., Demouche M. (2018). Modelling of the thermomechanical behaviour of FCC metals under various conditions. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 115-127. https://doi.org/10.3166/ACSM.42.115-127
211	Ba, J.J., Su, C.T., Li, Y.Q.	A case study on heat source mechanism of high-temperature geothermal field	geothermal field, heat source, magma chamber, granite radioactivity, Ruidian, China	42, 1, 129-147	https://doi.org/10.3166/ACSM.42.129-147	Ba, J.J., Su, C.T., Li, Y.Q. (2018). A case study on heat source mechanism of high-temperature geothermal field. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 129-147. https://doi.org/10.3166/ACSM.42.129-147
212	Xi, S., Zuo, S.S., Liu, Y., Zhu, Y.L., Yang, Y.T., Gou, B.L.	Preparation of silicon-based nanowires through high-temperature annealing	silicon-based nanowires, high-temperature annealing, morphology, microstructure	42, 1, 149-158	https://doi.org/10.3166/ACSM.42.149-158	Xi, S., Zuo, S.S., Liu, Y., Zhu, Y.L., Yang, Y.T., Gou, B.L. (2018). Preparation of silicon-based nanowires through high-temperature annealing. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 42, No. 1, pp. 149-158. https://doi.org/10.3166/ACSM.42.149-158
213	Agrawal, H., Mishra, A.K.	Evolution of digital detonators as an intelligent tool for control blasting in Indian mines	electronic detonators, digital detonators, delay time accuracy, blasting	41, 3-4, 157-171	https://doi.org/10.3166/ACSM.41.157-171	Agrawal, H., Mishra, A.K. (2017). Evolution of digital detonators as an intelligent tool for control blasting in Indian mines. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 157-171. https://doi.org/10.3166/ACSM.41.157-171
214	Nawal, A., Redouane, B., Sumeiya, B., Abderrahim, C.B.	Promotional effect of iron on the activity of TiO ₂ in the production of adipic acid	oxidation, cyclohexene, adipic acid, iron, titania	41, 3-4, 173-188	https://doi.org/10.3166/ACSM.41.173-188	Nawal, A., Redouane, B., Sumeiya, B., Abderrahim, C.B. (2017). Promotional effect of iron on the activity of TiO ₂ in the production of adipic acid. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 173-188. https://doi.org/10.3166/ACSM.41.173-188
215	Ou, X.D., Pan, X., Hou, K.W., Yin, X.T.	Experiment and mechanism study on microbial improvement of dredger fill	microbial improvement, hydraulic fill, triaxial shear test, osmotic coefficient	41, 3-4, 189-208	https://doi.org/10.3166/ACSM.41.189-208	Ou, X.D., Pan, X., Hou, K.W., Yin, X.T. (2017). Experiment and mechanism study on microbial improvement of dredger fill. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 189-208. https://doi.org/10.3166/ACSM.41.189-208
216	Kumar, S., Mishra, A.K., Choudhary, B.S.	P and S wave velocity of rocks in Jharia coalfield region for assessment of its geotechnical properties in dry, semi-saturated and saturated conditions	p-wave velocity, s-wave velocity, rock properties, coal mines, rock samples and saturated conditions	41, 3-4, 209-223	https://doi.org/10.3166/ACSM.41.209-223	Kumar, S., Mishra, A.K., Choudhary, B.S. (2017). P and S wave velocity of rocks in Jharia coalfield region for assessment of its geotechnical properties in dry, semi-saturated and saturated conditions. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 209-223. https://doi.org/10.3166/ACSM.41.209-223
217	Yu, D.	Experimental study on anti-seismic property of inorganic polymer concrete short columns after high temperature	inorganic polymer concrete, short column, open fire test, anti-seismic property	41, 3-4, 225-237	https://doi.org/10.3166/ACSM.41.225-237	Yu, D. (2017). Experimental study on anti-seismic property of inorganic polymer concrete short columns after high temperature. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 225-237. https://doi.org/10.3166/ACSM.41.225-237
218	Uddin, M.J., Halim, M.A., Mohiuddin, M., Shalauddin.	Copper oxide-water nanofluid flow within annulus shaped cavity: A numerical study on natural convective heat transfer	finite element method, nanofluid, nanoparticles, solar collector, heat transfer	41, 3-4, 239-260	https://doi.org/10.3166/ACSM.41.239-260	Uddin, M.J., Halim, M.A., Mohiuddin, M., Shalauddin. (2017). Copper oxide-water nanofluid flow within an annulus shaped cavity: A numerical study on natural convective heat transfer. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 239-260. https://doi.org/10.3166/ACSM.41.239-260
219	Abderrahmane, H., Brahim, N., Abdelfatah, B., Noureddine, A.M.	Laminar natural convection of power-law fluid in a differentially heated inclined square cavity	natural convection, square cavity, inclination angle, power-law fluid, prandtl number	41, 3-4, 261-281	https://doi.org/10.3166/ACSM.41.261-281	Abderrahmane, H., Brahim, N., Abdelfatah, B., Noureddine, A.M. (2017). Laminar natural convection of power-law fluid in a differentially heated inclined square cavity. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 261-281. https://doi.org/10.3166/ACSM.41.261-281
220	Liu, C.Y., Zhang, X.P., Du, L.Z., Wang, Y., Chen, B.B., Wang, J.	Evaluation of rock brittleness based on the ratio of stress drop rate to strain drop rate and peak strength	rock brittleness, ratio of stress drop rate to strain drop rate (Drop Rate Ratio), peak strength	41, 3-4, 283-298	https://doi.org/10.3166/ACSM.41.283-298	Liu, C.Y., Zhang, X.P., Du, L.Z., Wang, Y., Chen, B.B., Wang, J. (2017). Evaluation of rock brittleness based on the ratio of stress drop rate to strain drop rate and peak strength. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 283-298. https://doi.org/10.3166/ACSM.41.283-298
221	Li, M.Q., Yang, Z.Y., Li, J.W., Zhou, S.Z.	Simulation of rock-breaking process of polycrystalline diamond compact bit under circumferential impact torque	torsional impactor, polycrystalline diamond compact (PDC) bit, stick-slip vibration, rock-breaking simulation	41, 3-4, 299-311	https://doi.org/10.3166/ACSM.41.299-311	Li, M.Q., Yang, Z.Y., Li, J.W., Zhou, S.Z. (2017). Simulation of rock-breaking process of polycrystalline diamond compact bit under circumferential impact torque. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 3-4, pp. 299-311. https://doi.org/10.3166/ACSM.41.299-311
222	Abdulkadhim, A., Hamzah, H. K., Abed, A.M., Hassan, A.F.	Numerical study of entropy generation and natural convection heat transfer in trapezoidal enclosure with a thin baffle attached to inner wall using liquid nanofluid	natural convection, baffle, nanofluid, enclosure	41, 1-2, 7-28	https://doi.org/10.3166/ACSM.41.7-28	Abdulkadhim, A., Hamzah, H. K., Abed, A.M., Hassan, A.F. (2017). Numerical study of entropy generation and natural convection heat transfer in trapezoidal enclosure with a thin baffle attached to inner wall using liquid nanofluid. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 1-2, pp. 7-28. https://doi.org/10.3166/ACSM.41.7-28
223	Salloomi, K.N., Al-Sumaidae, S.	Numerical validation of temperature distribution in friction stir welded aluminum 7075-T651 plates using pseudo heat transfer model	Friction Stir Welding (FSW), finite element simulation, AL 7075-T651, thermal modeling	41, 1-2, 29-38	https://doi.org/10.3166/ACSM.41.29-38	Salloomi, K.N., Al-Sumaidae, S. (2017). Numerical validation of temperature distribution in friction stir welded aluminum 7075-T651 plates using pseudo heat transfer model. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 1-2, pp. 29-38. https://doi.org/10.3166/ACSM.41.29-38
224	Zhang, Y.X.	Form simulation and influencing factors of cadmium ions in the Longjiang river, China	form simulation, influencing factors, cadmium, longjiang river	41, 1-2, 39-50	https://doi.org/10.3166/ACSM.41.39-50	Zhang, Y.X. (2017). Form simulation and influencing factors of cadmium ions in the Longjiang river, China. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 1-2, pp. 39-50. https://doi.org/10.3166/ACSM.41.39-50
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226	Zhang, X.G., Chen, Z.X., Yi, N.P.	Improvement of high-liquid limit soil in the subgrade of mine roadway	mine road, subgrade, high liquid limit soil, admixture, improvement test	41, 1-2, 61-74	https://doi.org/10.3166/ACSM.41.61-74	Zhang, X.G., Chen, Z.X., Yi, N.P. (2017). Improvement of high-liquid limit soil in the subgrade of mine roadway. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 1-2, pp. 61-74. https://doi.org/10.3166/ACSM.41.61-74

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228	Kkkaled, C., Ahmed, S., Sahli, S.	Immersed borders approach for fluid-structure interaction	generalized finite element method, mobile interfaces, incompressible flows	41, 1-2, 109-126	https://doi.org/10.3166/ACSM.41.109-126	Kkkaled, C., Ahmed, S., Sahli, S. (2017). Immersed borders approach for fluid-structure interaction. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 1-2, pp. 109-126. https://doi.org/10.3166/ACSM.41.109-126
229	Zhao, Y.S., Li, P., Yin, Q., Wang, T.	Analysis on structural design and experimental effect of two kinds of hollow-through DTH hammer reverse circulation bits	reverse circulation bit, hollow-through DTH hammer reverse circulation bit, slit-type inner nozzle structure, the double-row inner nozzle structure	41, 1-2, 127-137	https://doi.org/10.3166/ACSM.41.127-137	Zhao, Y.S., Li, P., Yin, Q., Wang, T. (2017). Analysis on structural design and experimental effect of two kinds of hollow-through DTH hammer reverse circulation bits. <i>Annales de Chimie - Science des Matériaux</i> , Vol. 41, No. 1-2, pp. 127-137. https://doi.org/10.3166/ACSM.41.127-137
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