

Michal Lojka

List of Publications by Year in descending order

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58
all docs

58
docs citations

58
times ranked

337
citing authors

#	ARTICLE	IF	CITATIONS
1	Valorization of wood chips ash as an eco-friendly mineral admixture in mortar mix design. Waste Management, 2018, 80, 89-100.	3.7	63
2	Carbon Dioxide Uptake by MOC-Based Materials. Applied Sciences (Switzerland), 2020, 10, 2254.	1.3	40
3	Synthesis, Structure, and Thermal Stability of Magnesium Oxychloride $5\text{Mg}(\text{OH})_2 \cdot \text{MgCl}_2 \cdot 8\text{H}_2\text{O}$. Applied Sciences (Switzerland), 2020, 10, 1683.	1.3	40
4	Ternary Blended Binder for Production of a Novel Type of Lightweight Repair Mortar. Materials, 2019, 12, 996.	1.3	34
5	Experimental Analysis of MOC Composite with a Waste-Expanded Polypropylene-Based Aggregate. Materials, 2018, 11, 931.	1.3	33
6	Thermal Stability and Kinetics of Formation of Magnesium Oxychloride Phase $3\text{Mg}(\text{OH})_2 \cdot \text{MgCl}_2 \cdot 8\text{H}_2\text{O}$. Materials, 2020, 13, 767.	1.3	28
7	High-performance magnesium oxychloride composites with silica sand and diatomite. Journal of Materials Research and Technology, 2021, 11, 957-969.	2.6	27
8	Towards novel building materials: High-strength nanocomposites based on graphene, graphite oxide and magnesium oxychloride. Applied Materials Today, 2020, 20, 100766.	2.3	24
9	Selective Bromination of Graphene Oxide by the Hunsdiecker Reaction. Chemistry - A European Journal, 2017, 23, 10473-10479.	1.7	21
10	Magnesium oxychloride-graphene composites: Towards high strength and water resistant materials for construction industry. FlatChem, 2021, 29, 100284.	2.8	21
11	Synthesis and properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{Y}_2\text{Ba}_4\text{CuWO}_{10.8}$ superconducting composites. Journal of the European Ceramic Society, 2018, 38, 2541-2546.	2.8	20
12	Influence of Waste Plastic Aggregate and Water-Repellent Additive on the Properties of Lightweight Magnesium Oxychloride Cement Composite. Applied Sciences (Switzerland), 2019, 9, 5463.	1.3	20
13	Influence of Wood-Based Biomass Ash Admixing on the Structural, Mechanical, Hygric, and Thermal Properties of Air Lime Mortars. Materials, 2019, 12, 2227.	1.3	19
14	Low-Carbon Composite Based on MOC, Silica Sand and Ground Porcelain Insulator Waste. Processes, 2020, 8, 829.	1.3	19
15	MOC Doped with Graphene Nanoplatelets: The Influence of the Mixture Preparation Technology on Its Properties. Materials, 2021, 14, 1450.	1.3	17
16	Magnesium Oxychloride Cement Composites with Silica Filler and Coal Fly Ash Admixture. Materials, 2020, 13, 2537.	1.3	16
17	Magnesium Oxychloride Cement Composites with MWCNT for the Construction Applications. Materials, 2021, 14, 484.	1.3	13
18	Reducing emission of carcinogenic by-products in the production of thermally reduced graphene oxide. Green Chemistry, 2016, 18, 6618-6629.	4.6	11

#	ARTICLE	IF	CITATIONS
19	Synthesis, Composition, and Properties of Partially Oxidized Graphite Oxides. <i>Materials</i> , 2019, 12, 2367.	1.3	10
20	The Effect of Nanosizing on the Oxidation of Partially Oxidized Copper Nanoparticles. <i>Materials</i> , 2020, 13, 2878.	1.3	10
21	Regolith-based magnesium oxychloride composites doped by graphene: Novel high-performance building materials for lunar constructions. <i>FlatChem</i> , 2021, 26, 100234.	2.8	10
22	Artificially perforated single-grain YBCO bulks: Dependence of superconducting properties on the bulk thickness. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5169-5177.	1.9	9
23	The Impact of Graphene and Diatomite Admixtures on the Performance and Properties of High-Performance Magnesium Oxychloride Cement Composites. <i>Materials</i> , 2020, 13, 5708.	1.3	8
24	Foam Glass Lightened Sorel™s Cement Composites Doped with Coal Fly Ash. <i>Materials</i> , 2021, 14, 1103.	1.3	8
25	Zeolite Lightweight Repair Renders: Effect of Binder Type on Properties and Salt Crystallization Resistance. <i>Materials</i> , 2021, 14, 3760.	1.3	8
26	Introduction of sulfur to graphene oxide by Friedel-Crafts reaction. <i>FlatChem</i> , 2017, 6, 28-36.	2.8	7
27	Synthesis and properties of phosphorus and sulfur co-doped graphene. <i>New Journal of Chemistry</i> , 2018, 42, 16093-16102.	1.4	6
28	Ultra-high strength multicomponent composites based on reactive magnesia: Tailoring of material properties by addition of 1D and 2D carbon nanoadditives. <i>Journal of Building Engineering</i> , 2022, 50, 104122.	1.6	6
29	Thermal properties of graphite oxide, thermally reduced graphene and chemically reduced graphene. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	5
30	MOC-Diatomite Composites Filled with Multi-Walled Carbon Nanotubes. <i>Materials</i> , 2021, 14, 4576.	1.3	5
31	Tuning the top-seeded melt growth of REBCO single-domain superconducting bulks by a pyramid-like buffer stack. <i>Ceramics International</i> , 2022, 48, 5377-5385.	2.3	5
32	Assessment of wood chips ash as efficient admixture in foamed glass-MOC composites. <i>Journal of Materials Research and Technology</i> , 2022, 19, 2287-2300.	2.6	4
33	Kinetics of formation and thermal stability of $Mg_2(OH)_3Cl \cdot 4H_2O$. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
34	Synthesis and Characterization of the Properties of Ceria Nanoparticles with Tunable Particle Size for the Decomposition of Chlorinated Pesticides. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5224.	1.3	3
35	Magnesium Oxybromides MOB-318 and MOB-518: Brominated Analogues of Magnesium Oxychlorides. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4032.	1.3	3
36	Carbon-Bonded Alumina Filters Coated by Graphene Oxide for Water Treatment. <i>Materials</i> , 2020, 13, 2006.	1.3	3

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37	Effect of Target Density on the Surface Morphology of Y-Ba-Cu-O Thin Films Prepared by Ionized Jet Deposition. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	3
38	Fast synthesis of highly-oxidized graphene oxide by two-step oxidation process. AIP Conference Proceedings, 2019, , .	0.3	2
39	The effective synthesis of large volumes of the ultrafine BaZrO ₃ nanoparticles. Materials Chemistry and Physics, 2021, 259, 124047.	2.0	2
40	Synthesis of nanosized LaFeAl ₁₁ O ₁₉ hexaaluminate by mixed metal glycerolate method. Ceramics International, 2021, 47, 29653-29659.	2.3	2
41	Heat capacity and thermal stability of Y ₂ BaCuO ₅ . AIP Conference Proceedings, 2019, , .	0.3	1
42	Thermodynamic Properties of Stoichiometric Non-Superconducting Phase Y ₂ BaCuO ₅ . Materials, 2019, 12, 3163.	1.3	1
43	Transport Coefficients in Y-Ba-Cu-O System for Ionized Jet Deposition Method. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-3.	1.1	1
44	Influence of RE-Based Liquid Source (RE = Sm, Gd, Dy, Y, Yb) on EuBCO/Ag Superconducting Bulks. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	1
45	The influence of graphene specific surface on material properties of MOC-based composites for construction use. Journal of Building Engineering, 2021, 43, 103193.	1.6	1
46	MOC Cement-Based Composites with Silica Filler and Wood Chips Ash Admixture. IOP Conference Series: Materials Science and Engineering, 0, 960, 022081.	0.3	1
47	Variability in levitation properties of YBCO bulks grown in one batch. AIP Conference Proceedings, 2020, , .	0.3	1
48	Co-Doped Magnesium Oxychloride Composites with Unique Flexural Strength for Construction Use. Materials, 2022, 15, 604.	1.3	1
49	Heat capacity and thermal stability of YBa ₂ Cu ₃ O ₇ . AIP Conference Proceedings, 2018, , .	0.3	0
50	Fast synthesis of graphite oxide via modified chlorate route. AIP Conference Proceedings, 2018, , .	0.3	0
51	High-density YBCO targets for sputtering with defect-free microstructure prepared by novel infiltration method. Journal of the European Ceramic Society, 2021, 41, 7077-7084.	2.8	0
52	Synthesis and characterization of magnesium oxybromide Mg ₂ (OH) ₃ Br·4 H ₂ O. AIP Conference Proceedings, 2020, , .	0.3	0
53	Simple synthesis of nanostructured BaZrO ₃ and its use in superconducting composites. AIP Conference Proceedings, 2020, , .	0.3	0
54	Thermal stability and kinetics of formation of Mg ₃ (OH) ₅ Cl·4 H ₂ O. AIP Conference Proceedings, 2020, , .	0.3	0

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55	SPS of YBCO precursor for the top-seeded melt growth. AIP Conference Proceedings, 2020, , .	0.3	0
56	SYNTHESIS OF PARTIALLY OXIDIZED GRAPHITE OXIDE BY OXIDATION OF NANOGRAFITE. , 2020, , .		0
57	Highly-reactive nanoscale MgO precursor for fast synthesis of magnesium oxychlorides. AIP Conference Proceedings, 2022, , .	0.3	0
58	Enhancement of structural and mechanical properties of magnesium oxychloride cement due to graphene addition. AIP Conference Proceedings, 2022, , .	0.3	0