

Michal Lojka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3611569/publications.pdf>

Version: 2024-02-01

58
papers

596
citations

516561

16
h-index

642610

23
g-index

58
all docs

58
docs citations

58
times ranked

337
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Co-Doped Magnesium Oxychloride Composites with Unique Flexural Strength for Construction Use. <i>Materials</i> , 2022, 15, 604.	1.3	1
3	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
4	Highly-reactive nanoscale MgO precursor for fast synthesis of magnesium oxychlorides. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
5	Enhancement of structural and mechanical properties of magnesium oxychloride cement due to graphene addition. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
6	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
7	The effective synthesis of large volumes of the ultrafine BaZrO ₃ nanoparticles. <i>Materials Chemistry and Physics</i> , 2021, 259, 124047.	2.0	2
8	Magnesium Oxychloride Cement Composites with MWCNT for the Construction Applications. <i>Materials</i> , 2021, 14, 484.	1.3	13
9	Foam Glass Lightened Sorel™s Cement Composites Doped with Coal Fly Ash. <i>Materials</i> , 2021, 14, 1103.	1.3	8
10	High-performance magnesium oxychloride composites with silica sand and diatomite. <i>Journal of Materials Research and Technology</i> , 2021, 11, 957-969.	2.6	27
11	MOC Doped with Graphene Nanoplatelets: The Influence of the Mixture Preparation Technology on Its Properties. <i>Materials</i> , 2021, 14, 1450.	1.3	17
12	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
13	Zeolite Lightweight Repair Renders: Effect of Binder Type on Properties and Salt Crystallization Resistance. <i>Materials</i> , 2021, 14, 3760.	1.3	8
14	Transport Coefficients in Y-Ba-Cu-O System for Ionized Jet Deposition Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-3.	1.1	1
15	MOC-Diatomite Composites Filled with Multi-Walled Carbon Nanotubes. <i>Materials</i> , 2021, 14, 4576.	1.3	5
16	Influence of RE-Based Liquid Source (RE = Sm, Gd, Dy, Y, Yb) on EuBCO/Ag Superconducting Bulks. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-5.	1.1	1
17	Effect of Target Density on the Surface Morphology of Y-Ba-Cu-O Thin Films Prepared by Ionized Jet Deposition. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-5.	1.1	3
18	Magnesium oxychloride-graphene composites: Towards high strength and water resistant materials for construction industry. <i>FlatChem</i> , 2021, 29, 100284.	2.8	21

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Synthesis of nanosized LaFeAl ₁₁ O ₁₉ hexaaluminate by mixed metal glycerolate method. Ceramics International, 2021, 47, 29653-29659.	2.3	2
22	Low-Carbon Composite Based on MOC, Silica Sand and Ground Porcelain Insulator Waste. Processes, 2020, 8, 829.	1.3	19
23	Towards novel building materials: High-strength nanocomposites based on graphene, graphite oxide and magnesium oxychloride. Applied Materials Today, 2020, 20, 100766.	2.3	24
24	The Effect of Nanosizing on the Oxidation of Partially Oxidized Copper Nanoparticles. Materials, 2020, 13, 2878.	1.3	10
25	Synthesis and Characterization of the Properties of Ceria Nanoparticles with Tunable Particle Size for the Decomposition of Chlorinated Pesticides. Applied Sciences (Switzerland), 2020, 10, 5224.	1.3	3
26	The Impact of Graphene and Diatomite Admixtures on the Performance and Properties of High-Performance Magnesium Oxychloride Cement Composites. Materials, 2020, 13, 5708.	1.3	8
27	Magnesium Oxychloride Cement Composites with Silica Filler and Coal Fly Ash Admixture. Materials, 2020, 13, 2537.	1.3	16
28	Magnesium Oxybromides MOB-318 and MOB-518: Brominated Analogues of Magnesium Oxychlorides. Applied Sciences (Switzerland), 2020, 10, 4032.	1.3	3
29	Artificially perforated single-grain YBCO bulks: Dependence of superconducting properties on the bulk thickness. Journal of the American Ceramic Society, 2020, 103, 5169-5177.	1.9	9
30	Thermal Stability and Kinetics of Formation of Magnesium Oxychloride Phase 3Mg(OH) ₂ · TM MgCl ₂ · TM 8H ₂ O. Materials, 2020, 13, 767.	1.3	28
31	Carbon Dioxide Uptake by MOC-Based Materials. Applied Sciences (Switzerland), 2020, 10, 2254.	1.3	40
32	Carbon-Bonded Alumina Filters Coated by Graphene Oxide for Water Treatment. Materials, 2020, 13, 2006.	1.3	3
33	Synthesis, Structure, and Thermal Stability of Magnesium Oxychloride 5Mg(OH) ₂ · TM MgCl ₂ · TM 8H ₂ O. Applied Sciences (Switzerland), 2020, 10, 1683.	1.3	40
34	Synthesis and characterization of magnesium oxybromide Mg ₂ (OH) ₃ Br·4 H ₂ O. AIP Conference Proceedings, 2020, , .	0.3	0
35	Variability in levitation properties of YBCO bulks grown in one batch. AIP Conference Proceedings, 2020, , .	0.3	1
36	Simple synthesis of nanostructured BaZrO ₃ and its use in superconducting composites. AIP Conference Proceedings, 2020, , .	0.3	0

#	ARTICLE	IF	CITATIONS
37	Thermal stability and kinetics of formation of $Mg_3(OH)_5Cl \cdot 4H_2O$. AIP Conference Proceedings, 2020, , .	0.3	0
38	SPS of YBCO precursor for the top-seeded melt growth. AIP Conference Proceedings, 2020, , .	0.3	0
39	SYNTHESIS OF PARTIALLY OXIDIZED GRAPHITE OXIDE BY OXIDATION OF NANOGRAPHITE. , 2020, , .		0
40	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
41	Synthesis, Composition, and Properties of Partially Oxidized Graphite Oxides. Materials, 2019, 12, 2367.	1.3	10
42	Heat capacity and thermal stability of Y_2BaCuO_5 . AIP Conference Proceedings, 2019, , .	0.3	1
43	Ternary Blended Binder for Production of a Novel Type of Lightweight Repair Mortar. Materials, 2019, 12, 996.	1.3	34
44	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
45	Fast synthesis of highly-oxidized graphene oxide by two-step oxidation process. AIP Conference Proceedings, 2019, , .	0.3	2
46	Kinetics of formation and thermal stability of $Mg_2(OH)_3Cl \cdot 4H_2O$. AIP Conference Proceedings, 2019, , .	0.3	3
47	Thermodynamic Properties of Stoichiometric Non-Superconducting Phase Y_2BaCuO_5 . Materials, 2019, 12, 3163.	1.3	1
48	Synthesis and properties of $YBa_2Cu_3O_{7-x}$ - $Y_2Ba_4CuWO_{10.8}$ superconducting composites. Journal of the European Ceramic Society, 2018, 38, 2541-2546.	2.8	20
49	Valorization of wood chips ash as an eco-friendly mineral admixture in mortar mix design. Waste Management, 2018, 80, 89-100.	3.7	63
50	Heat capacity and thermal stability of $YBa_2Cu_3O_7$. AIP Conference Proceedings, 2018, , .	0.3	0
51	Experimental Analysis of MOC Composite with a Waste-Expanded Polypropylene-Based Aggregate. Materials, 2018, 11, 931.	1.3	33
52	Synthesis and properties of phosphorus and sulfur co-doped graphene. New Journal of Chemistry, 2018, 42, 16093-16102.	1.4	6
53	Fast synthesis of graphite oxide via modified chlorate route. AIP Conference Proceedings, 2018, , .	0.3	0
54	Selective Bromination of Graphene Oxide by the Hunsdiecker Reaction. Chemistry - A European Journal, 2017, 23, 10473-10479.	1.7	21

#	ARTICLE	IF	CITATIONS
55	Thermal properties of graphite oxide, thermally reduced graphene and chemically reduced graphene. AIP Conference Proceedings, 2017, , .	0.3	5
56	Introduction of sulfur to graphene oxide by Friedel-Crafts reaction. FlatChem, 2017, 6, 28-36.	2.8	7
57	Reducing emission of carcinogenic by-products in the production of thermally reduced graphene oxide. Green Chemistry, 2016, 18, 6618-6629.	4.6	11
58	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