Michal HegedÃ¼s

List of Publications by Year
in descending order

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17 papers	266 citations	840119 11 h-index	940134 16 g-index
17 all docs	17 docs citations	17 times ranked	272 citing authors

#	Article	IF	Citations
1	Sulfidated nano-scale zerovalent iron is able to effectively reduce in situ hexavalent chromium in a contaminated aquifer. Journal of Hazardous Materials, 2021, 405, 124665.	6.5	42
2	Semi-industrial Green Mechanochemical Syntheses of Solar Cell Absorbers Based on Quaternary Sulfides. ACS Sustainable Chemistry and Engineering, 2018, 6, 2132-2141.	3.2	31
3	Biomechanochemical Solid-State Synthesis of Silver Nanoparticles with Antibacterial Activity Using Lichens. ACS Sustainable Chemistry and Engineering, 2020, 8, 13945-13955.	3.2	29
4	Photovoltaic materials: Cu₂ZnSnS₄ (CZTS) nanocrystals synthesized via industrially scalable, green, oneâ€step mechanochemical process. Progress in Photovoltaics: Research and Applications, 2019, 27, 798-811.	4.4	27
5	Scalable synthesis of potential solar cell absorber Cu2SnS3 (CTS) from nanoprecursors. Journal of Alloys and Compounds, 2018, 768, 1006-1015.	2.8	21
6	Mechanochemical approach to a Cu2ZnSnS4 solar cell absorber via a â€œmicro-nanoâ€•route. Journal of Materials Science, 2018, 53, 13617-13630.	1.7	15
7	Mechanochemistry for Thermoelectrics: Nanobulk Cu6Fe2SnS8/Cu2FeSnS4 Composite Synthesized in an Industrial Mill. Journal of Electronic Materials, 2019, 48, 1846-1856.	1.0	15
8	Rapid mechanochemical synthesis of nanostructured mohite Cu2SnS3 (CTS). Journal of Materials Science, 2018, 53, 13631-13642.	1.7	14
9	Tetrahedrites synthesized via scalable mechanochemical process and spark plasma sintering. Journal of the European Ceramic Society, 2020, 40, 1922-1930.	2.8	13
10	Zn source-dependent magnetic properties of undoped ZnO nanoparticles from mechanochemically derived hydrozincite. Journal of Alloys and Compounds, 2019, 787, 1249-1259.	2.8	12
11	Microcrystalline Gd2MoO6 prepared by combined mechanochemical/thermal process and its magnetic properties. Journal of Materials Science, 2019, 54, 6111-6121.	1.7	11
12	Promoted crystallisation and cationic ordering in thermoelectric Cu₂₆V₂Sn₆S₃₂ colusite by eccentric vibratory ball milling. Dalton Transactions, 2020, 49, 15828-15836.	1.6	10
13	Mechanochemical syntheses of LiFeGe2O6-based nanocomposite and novel nanoglassy LiFeTi2O6. Journal of Materials Science, 2018, 53, 13530-13537.	1.7	9
14	Advantageous mechanochemical synthesis of copper(I) selenide semiconductor, characterization, and properties. Frontiers of Chemical Science and Engineering, 2022, 16, 433-442.	2.3	7
15	A Unique Mechanochemical Redox Reaction Yielding Nanostructured Double Perovskite Sr2FeMoO6 With an Extraordinarily High Degree of Anti-Site Disorder. Frontiers in Chemistry, 2022, 10, 846910.	1.8	5
16	Rapid hydrodehalogenation of chlorinated benzoic acids using mechano-thermally prepared Raney alloy with enhanced kinetics. Journal of Environmental Chemical Engineering, 2021, 9, 105764.	3.3	4
17	Disorder of the dimeric TCNQâ€“TCNQ unit in the crystal structure of [Ni(bpy)₃]₂(TCNQâ€“TCNQ)(TCNQ)₂Â·6H₂O (TCNQ is) Tj ETQq1 1 0.784314 rg Communications, 2017, 73, 8-12.	0.2	1