

Erika Dutkova

List of Publications by Year in descending order

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47
papers

1,887
citations

430442

18
h-index

264894

42
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47
all docs

47
docs citations

47
times ranked

2315
citing authors

#	ARTICLE	IF	CITATIONS
1	Hallmarks of mechanochemistry: from nanoparticles to technology. <i>Chemical Society Reviews</i> , 2013, 42, 7571.	18.7	952
2	Fine milling in applied mechanochemistry. <i>Minerals Engineering</i> , 2009, 22, 681-694.	1.8	69
3	Bio-mechanochemical synthesis of silver nanoparticles with antibacterial activity. <i>Advanced Powder Technology</i> , 2017, 28, 3307-3312.	2.0	56
4	Mechanochemistry of Chitosan-Coated Zinc Sulfide (ZnS) Nanocrystals for Bio-imaging Applications. <i>Nanoscale Research Letters</i> , 2017, 12, 328.	3.1	44
5	Mechanochemistry of copper sulfides: Characterization, surface oxidation and photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2018, 746, 576-582.	2.8	44
6	Stability studies of As ₄ S ₄ nanosuspension prepared by wet milling in Poloxamer 407. <i>International Journal of Pharmaceutics</i> , 2015, 478, 187-192.	2.6	39
7	Plant-Mediated Synthesis of Silver Nanoparticles and Their Stabilization by Wet Stirred Media Milling. <i>Nanoscale Research Letters</i> , 2017, 12, 83.	3.1	39
8	Mechanochemical solid state synthesis and characterization of CdxZn1-xS nanocrystals. <i>Solid State Ionics</i> , 2008, 179, 1242-1245.	1.3	38
9	CdS/ZnS nanocomposites: from mechanochemical synthesis to cytotoxicity issues. <i>Materials Science and Engineering C</i> , 2016, 58, 1016-1023.	3.8	34
10	Semi-industrial Green Mechanochemical Syntheses of Solar Cell Absorbers Based on Quaternary Sulfides. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2132-2141.	3.2	31
11	Mechanochemical synthesis of Sb ₂ S ₃ and Bi ₂ S ₃ nanoparticles. <i>Chemical Engineering Science</i> , 2013, 85, 25-29.	1.9	30
12	Structural and optical properties of nanostructured copper sulfide semiconductor synthesized in an industrial mill. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 164-170.	2.3	29
13	Mechanochemical synthesis, structural, magnetic, optical and electrooptical properties of CuFeS ₂ nanoparticles. <i>Advanced Powder Technology</i> , 2018, 29, 1820-1826.	2.0	28
14	Photovoltaic materials: Cu ₂ ZnSnS ₄ (CZTS) nanocrystals synthesized via industrially scalable, green, one-step mechanochemical process. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 798-811.	4.4	27
15	Realgar nanoparticles <i>versus</i> arsenic compounds induce <i>in vitro</i> and <i>in vivo</i> activity <i>against</i> multiple myeloma. <i>British Journal of Haematology</i> , 2017, 179, 756-771.	1.2	26
16	Mechanochemical approach for the capping of mixed core CdS/ZnS nanocrystals: Elimination of cadmium toxicity. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 97-111.	5.0	25
17	Mechanochemical synthesis and <i>in vitro</i> studies of chitosan-coated InAs/ZnS mixed nanocrystals. <i>Journal of Materials Science</i> , 2017, 52, 721-735.	1.7	21
18	CO ₂ utilization for fast preparation of nanocrystalline hydrozincite. <i>Journal of CO₂ Utilization</i> , 2016, 16, 328-335.	3.3	20

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19	Synthesis and characterization of CuInS ₂ nanocrystalline semiconductor prepared by high-energy milling. <i>Journal of Materials Science</i> , 2016, 51, 1978-1984.	1.7	17
20	Mechanochemical Solvent-Free Synthesis of Quaternary Semiconductor Cu-Fe-Sn-S Nanocrystals. <i>Nanoscale Research Letters</i> , 2017, 12, 256.	3.1	17
21	Mechanochemistry as a versatile and scalable tool for nanomaterials synthesis: Recent achievements in Košice, Slovakia. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 24, 7-13.	3.2	17
22	Mechanochemical synthesis and reactivity of PbS nanocrystals. <i>Journal of Crystal Growth</i> , 2011, 332, 1-6.	0.7	16
23	Chalcogenide Quaternary Cu ₂ FeSnS ₄ Nanocrystals for Solar Cells: Explosive Character of Mechanochemical Synthesis and Environmental Challenge. <i>Crystals</i> , 2017, 7, 367.	1.0	16
24	Mechanochemistry in preparation of nanocrystalline semiconductors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3756-3758.	0.8	15
25	Mechanochemically synthesized nanocrystalline ternary CuInSe ₂ chalcogenide semiconductor. <i>Materials Letters</i> , 2016, 173, 182-186.	1.3	15
26	Structural, surface and magnetic properties of chalcogenide Co ₉ S ₈ nanoparticles prepared by mechanochemical synthesis. <i>Journal of Alloys and Compounds</i> , 2018, 745, 863-867.	2.8	15
27	Mechanochemical Synthesis and Characterization of CuInS ₂ /ZnS Nanocrystals. <i>Molecules</i> , 2019, 24, 1031.	1.7	15
28	Enhanced thermoelectric performance of chalcopyrite nanocomposite via co-milling of synthetic and natural minerals. <i>Materials Letters</i> , 2020, 275, 128107.	1.3	15
29	Arsenic Sulphide As ₄ S ₄ Nanoparticles: Physico-Chemical Properties and Anticancer Effects. <i>Journal of Nano Research</i> , 2012, 18-19, 149-155.	0.8	14
30	Rapid mechanochemical synthesis of nanostructured mohite Cu ₂ SnS ₃ (CTS). <i>Journal of Materials Science</i> , 2018, 53, 13631-13642.	1.7	14
31	Mechanochemically synthesized cobalt monoselenide: structural characterization and optical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	13
32	Sustainable Synthesis of Cadmium Sulfide, with Applicability in Photocatalysis, Hydrogen Production, and as an Antibacterial Agent, Using Two Mechanochemical Protocols. <i>Nanomaterials</i> , 2022, 12, 1250.	1.9	13
33	Zn source-dependent magnetic properties of undoped ZnO nanoparticles from mechanochemically derived hydrozincite. <i>Journal of Alloys and Compounds</i> , 2019, 787, 1249-1259.	2.8	12
34	Mechanochemically Synthesised Zn _{1-x} Cd _x S Nanoparticles for Solar Energy Applications. <i>Journal of Nano Research</i> , 0, 18-19, 247-256.	0.8	11
35	Properties of mechanochemically synthesized nanocrystalline Bi ₂ S ₃ particles. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 267-272.	1.9	11
36	Scalable and environmentally friendly mechanochemical synthesis of nanocrystalline rhodostannite (Cu ₂ FeSn ₃ S ₈). <i>Powder Technology</i> , 2021, 388, 192-200.	2.1	11

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37	PbS nanostructures synthesized via surfactant assisted mechanochemical route. Open Chemistry, 2009, 7, 215-221.	1.0	10
38	Comparative Study of Nanostructured CuSe Semiconductor Synthesized in a Planetary and Vibratory Mill. Nanomaterials, 2020, 10, 2038.	1.9	10
39	Mechanochemical synthesis of ternary chalcogenide chalcocite CuSbS ₂ and its characterization. Journal of Materials Science: Materials in Electronics, 2021, 32, 22898-22909.	1.1	9
40	Mechanochemistry for Energy Materials: Impact of High-Energy Milling on Chemical, Electric and Thermal Transport Properties of Chalcopyrite CuFeS ₂ Nanoparticles. ChemistryOpen, 2021, 10, 806-814.	0.9	9
41	Sustainable One-Step Solid-State Synthesis of Antibacterially Active Silver Nanoparticles Using Mechanochemistry. Nanomaterials, 2020, 10, 2119.	1.9	8
42	CdSe@ZnS nanocomposites prepared by a mechanochemical route: No release of Cd ²⁺ ions and negligible in vitro cytotoxicity. Materials Research Bulletin, 2014, 49, 302-309.	2.7	7
43	Advantageous mechanochemical synthesis of copper(I) selenide semiconductor, characterization, and properties. Frontiers of Chemical Science and Engineering, 2022, 16, 433-442.	2.3	7
44	SDS-Stabilized CuInSe ₂ /ZnS Multinanostructures Prepared by Mechanochemical Synthesis for Advanced Biomedical Application. Nanomaterials, 2021, 11, 69.	1.9	6
45	Mechanochemically synthesized ternary chalcogenide Cu ₃ SbS ₄ powders in a laboratory and an industrial mill. Materials Letters, 2021, 291, 129566.	1.3	5
46	Chitosan capped CuInS ₂ and CuInS ₂ /ZnS by wet stirred media milling: in vitro verification of their potential bio-imaging applications. Applied Nanoscience (Switzerland), 2020, 10, 4661-4671.	1.6	4
47	Mechanochemical Preparation, Characterization and Biological Activity of Stable CuS Nanosuspension Capped by Bovine Serum Albumin. Frontiers in Chemistry, 2022, 10, 836795.	1.8	3