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 g-index
47 all docs	47 docs citations	47 times ranked	2315 citing authors

#	Article	IF	Citations
1	Advantageous mechanochemical synthesis of copper(I) selenide semiconductor, characterization, and properties. Frontiers of Chemical Science and Engineering, 2022, 16, 433-442.	2.3	7
2	Sustainable Synthesis of Cadmium Sulfide, with Applicability in Photocatalysis, Hydrogen Production, and as an Antibacterial Agent, Using Two Mechanochemical Protocols. Nanomaterials, 2022, 12, 1250.	1.9	13
3	Mechanochemical Preparation, Characterization and Biological Activity of Stable CuS Nanosuspension Capped by Bovine Serum Albumin. Frontiers in Chemistry, 2022, 10, 836795.	1.8	3
4	Mechanochemically synthesized ternary chalcogenide Cu3SbS4 powders in a laboratory and an industrial mill. Materials Letters, 2021, 291, 129566.	1.3	5
5	Mechanochemical synthesis of ternary chalcogenide chalcostibite CuSbS2 and its characterization. Journal of Materials Science: Materials in Electronics, 2021, 32, 22898-22909.	1.1	9
6	Mechanochemistry for Energy Materials: Impact of Highâ€Energy Milling on Chemical, Electric and Thermal Transport Properties of Chalcopyrite CuFeS₂ Nanoparticles. ChemistryOpen, 2021, 10, 806-814.	0.9	9
7	Scalable and environmentally friendly mechanochemical synthesis of nanocrystalline rhodostannite (Cu2FeSn3S8). Powder Technology, 2021, 388, 192-200.	2.1	11
8	SDS-Stabilized CuInSe2/ZnS Multinanocomposites Prepared by Mechanochemical Synthesis for Advanced Biomedical Application. Nanomaterials, 2021, 11, 69.	1.9	6
9	Mechanochemistry as a versatile and scalable tool for nanomaterials synthesis: Recent achievements in KoÅ¡ice, Slovakia. Current Opinion in Green and Sustainable Chemistry, 2020, 24, 7-13.	3.2	17
10	Enhanced thermoelectric performance of chalcopyrite nanocomposite via co-milling of synthetic and natural minerals. Materials Letters, 2020, 275, 128107.	1.3	15
11	Comparative Study of Nanostructured CuSe Semiconductor Synthesized in a Planetary and Vibratory Mill. Nanomaterials, 2020, 10, 2038.	1.9	10
12	Chitosan capped CuInS2 and CuInS2/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
13	Sustainable One-Step Solid-State Synthesis of Antibacterially Active Silver Nanoparticles Using Mechanochemistry. Nanomaterials, 2020, 10, 2119.	1.9	8
14	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
15	Mechanochemical Synthesis and Characterization of CuInS2/ZnS Nanocrystals. Molecules, 2019, 24, 1031.	1.7	15
16	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
17	Structural and optical properties of nanostructured copper sulfide semiconductor synthesized in an industrial mill. Frontiers of Chemical Science and Engineering, 2019, 13, 164-170.	2.3	29
18	Structural, surface and magnetic properties of chalcogenide Co9S8 nanoparticles prepared by mechanochemical synthesis. Journal of Alloys and Compounds, 2018, 745, 863-867.	2.8	15

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19	Mechanochemistry of copper sulfides: Characterization, surface oxidation and photocatalytic activity. Journal of Alloys and Compounds, 2018, 746, 576-582.	2.8	44
20	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
21	Mechanochemical synthesis, structural, magnetic, optical and electrooptical properties of CuFeS2 nanoparticles. Advanced Powder Technology, 2018, 29, 1820-1826.	2.0	28
22	Rapid mechanochemical synthesis of nanostructured mohite Cu2SnS3 (CTS). Journal of Materials Science, 2018, 53, 13631-13642.	1.7	14
23	Mechanochemically synthesized cobalt monoselenide: structural characterization and optical properties. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	13
24	Plant-Mediated Synthesis of Silver Nanoparticles and Their Stabilization by Wet Stirred Media Milling. Nanoscale Research Letters, 2017, 12, 83.	3.1	39
25	Mechanochemical Solvent-Free Synthesis of Quaternary Semiconductor Cu-Fe-Sn-S Nanocrystals. Nanoscale Research Letters, 2017, 12, 256.	3.1	17
26	Mechanochemistry of Chitosan-Coated Zinc Sulfide (ZnS) Nanocrystals for Bio-imaging Applications. Nanoscale Research Letters, 2017, 12, 328.	3.1	44
27	Bio-mechanochemical synthesis of silver nanoparticles with antibacterial activity. Advanced Powder Technology, 2017, 28, 3307-3312.	2.0	56
28	Realgar nanoparticles versus <scp>ATO</scp> arsenic compounds induce inÂvitro and inÂvivo activity against multiple myeloma. British Journal of Haematology, 2017, 179, 756-771.	1.2	26
29	Mechanochemical synthesis and in vitro studies of chitosan-coated InAs/ZnS mixed nanocrystals. Journal of Materials Science, 2017, 52, 721-735.	1.7	21
30	Mechanochemical approach for the capping of mixed core CdS/ZnS nanocrystals: Elimination of cadmium toxicity. Journal of Colloid and Interface Science, 2017, 486, 97-111.	5.0	25
31	Chalcogenide Quaternary Cu2FeSnS4 Nanocrystals for Solar Cells: Explosive Character of Mechanochemical Synthesis and Environmental Challenge. Crystals, 2017, 7, 367.	1.0	16
32	CO2 utilization for fast preparation of nanocrystalline hydrozincite. Journal of CO2 Utilization, 2016, 16, 328-335.	3.3	20
33	Mechanochemically synthesized nanocrystalline ternary CuInSe2 chalcogenide semiconductor. Materials Letters, 2016, 173, 182-186.	1.3	15
34	CdS/ZnS nanocomposites: from mechanochemical synthesis to cytotoxicity issues. Materials Science and Engineering C, 2016, 58, 1016-1023.	3.8	34
35	Synthesis and characterization of CuInS2 nanocrystalline semiconductor prepared by high-energy milling. Journal of Materials Science, 2016, 51, 1978-1984.	1.7	17
36	Stability studies of As 4 S 4 nanosuspension prepared by wet milling in Poloxamer 407. International Journal of Pharmaceutics, 2015, 478, 187-192.	2.6	39

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37	CdSe@ZnS nanocomposites prepared by a mechanochemical route: No release of Cd2+ ions and negligible in vitro cytotoxicity. Materials Research Bulletin, 2014, 49, 302-309.	2.7	7
38	Properties of mechanochemically synthesized nanocrystalline Bi2S3 particles. Materials Science in Semiconductor Processing, 2014, 27, 267-272.	1.9	11
39	Mechanochemical synthesis of Sb2S3 and Bi2S3 nanoparticles. Chemical Engineering Science, 2013, 85, 25-29.	1.9	30
40	Hallmarks of mechanochemistry: from nanoparticles to technology. Chemical Society Reviews, 2013, 42, 7571.	18.7	952
41	Arsenic Sulphide As₄S₄ Nanoparticles: Physico-Chemical Properties and Anticancer Effects. Journal of Nano Research, 2012, 18-19, 149-155.	0.8	14
42	Mechanochemical synthesis and reactivity of PbS nanocrystals. Journal of Crystal Growth, 2011, 332, 1-6.	0.7	16
43	Fine milling in applied mechanochemistry. Minerals Engineering, 2009, 22, 681-694.	1.8	69
44	PbS nanostructures synthesized via surfactant assisted mechanochemical route. Open Chemistry, 2009, 7, 215-221.	1.0	10
45	Mechanochemistry in preparation of nanocrystalline semiconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3756-3758.	0.8	15
46	Mechanochemical solid state synthesis and characterization of CdxZn1â^'xS nanocrystals. Solid State Ionics, 2008, 179, 1242-1245.	1.3	38
47	Mechanochemically Synthesised Zn_xCd_{1-x}S Nanoparticles for Solar Energy Applications. Journal of Nano Research, 0, 18-19, 247-256.	0.8	11