## Erika Dutkova

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Hallmarks of mechanochemistry: from nanoparticles to technology. Chemical Society Reviews, 2013, 42, 7571.	38.1	952
2	Fine milling in applied mechanochemistry. Minerals Engineering, 2009, 22, 681-694.	4.3	69
3	Bio-mechanochemical synthesis of silver nanoparticles with antibacterial activity. Advanced Powder Technology, 2017, 28, 3307-3312.	4.1	56
4	Mechanochemistry of Chitosan-Coated Zinc Sulfide (ZnS) Nanocrystals for Bio-imaging Applications. Nanoscale Research Letters, 2017, 12, 328.	5.7	44
5	Mechanochemistry of copper sulfides: Characterization, surface oxidation and photocatalytic activity. Journal of Alloys and Compounds, 2018, 746, 576-582.	5.5	44
6	Stability studies of As 4 S 4 nanosuspension prepared by wet milling in Poloxamer 407. International Journal of Pharmaceutics, 2015, 478, 187-192.	5.2	39
7	Plant-Mediated Synthesis of Silver Nanoparticles and Their Stabilization by Wet Stirred Media Milling. Nanoscale Research Letters, 2017, 12, 83.	5.7	39
8	Mechanochemical solid state synthesis and characterization of CdxZn1â^'xS nanocrystals. Solid State Ionics, 2008, 179, 1242-1245.	2.7	38
9	CdS/ZnS nanocomposites: from mechanochemical synthesis to cytotoxicity issues. Materials Science and Engineering C, 2016, 58, 1016-1023.	7.3	34
10	Semi-industrial Green Mechanochemical Syntheses of Solar Cell Absorbers Based on Quaternary Sulfides. ACS Sustainable Chemistry and Engineering, 2018, 6, 2132-2141.	6.7	31
11	Mechanochemical synthesis of Sb2S3 and Bi2S3 nanoparticles. Chemical Engineering Science, 2013, 85, 25-29.	3.8	30
12	Structural and optical properties of nanostructured copper sulfide semiconductor synthesized in an industrial mill. Frontiers of Chemical Science and Engineering, 2019, 13, 164-170.	4.4	29
13	Mechanochemical synthesis, structural, magnetic, optical and electrooptical properties of CuFeS2 nanoparticles. Advanced Powder Technology, 2018, 29, 1820-1826.	4.1	28
14	Photovoltaic materials: Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) nanocrystals synthesized via industrially scalable, green, oneâ€step mechanochemical process. Progress in Photovoltaics: Research and Applications, 2019, 27, 798-811.	8.1	27
15	Realgar nanoparticles <i>versus </i> <scp>ATO</scp> arsenic compounds induce <i>inÂvitro</i> and <i>inÂvivo</i> activity <i>against</i> multiple myeloma. British Journal of Haematology, 2017, 179, 756-771.	2.5	26
16	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.	9.4	25
17	Mechanochemical synthesis and in vitro studies of chitosan-coated InAs/ZnS mixed nanocrystals. Journal of Materials Science, 2017, 52, 721-735.	3.7	21
18	CO2 utilization for fast preparation of nanocrystalline hydrozincite. Journal of CO2 Utilization, 2016, 16, 328-335.	6.8	20

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19	Synthesis and characterization of CuInS2 nanocrystalline semiconductor prepared by high-energy milling. Journal of Materials Science, 2016, 51, 1978-1984.	3.7	17
20	Mechanochemical Solvent-Free Synthesis of Quaternary Semiconductor Cu-Fe-Sn-S Nanocrystals. Nanoscale Research Letters, 2017, 12, 256.	5.7	17
21	Mechanochemistry as a versatile and scalable tool for nanomaterials synthesis: Recent achievements in KoÅjice, Slovakia. Current Opinion in Green and Sustainable Chemistry, 2020, 24, 7-13.	5.9	17
22	Mechanochemical synthesis and reactivity of PbS nanocrystals. Journal of Crystal Growth, 2011, 332, 1-6.	1.5	16
23	Chalcogenide Quaternary Cu2FeSnS4 Nanocrystals for Solar Cells: Explosive Character of Mechanochemical Synthesis and Environmental Challenge. Crystals, 2017, 7, 367.	2.2	16
24	Mechanochemistry in preparation of nanocrystalline semiconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3756-3758.	0.8	15
25	Mechanochemically synthesized nanocrystalline ternary CuInSe2 chalcogenide semiconductor. Materials Letters, 2016, 173, 182-186.	2.6	15
26	Structural, surface and magnetic properties of chalcogenide Co9S8 nanoparticles prepared by mechanochemical synthesis. Journal of Alloys and Compounds, 2018, 745, 863-867.	5.5	15
27	Mechanochemical Synthesis and Characterization of CuInS2/ZnS Nanocrystals. Molecules, 2019, 24, 1031.	3.8	15
28	Enhanced thermoelectric performance of chalcopyrite nanocomposite via co-milling of synthetic and natural minerals. Materials Letters, 2020, 275, 128107.	2.6	15
29	Arsenic Sulphide As <sub>4</sub> S <sub>4</sub> Nanoparticles: Physico-Chemical Properties and Anticancer Effects. Journal of Nano Research, 2012, 18-19, 149-155.	0.8	14
30	Rapid mechanochemical synthesis of nanostructured mohite Cu2SnS3 (CTS). Journal of Materials Science, 2018, 53, 13631-13642.	3.7	14
31	Mechanochemically synthesized cobalt monoselenide: structural characterization and optical properties. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	13
32	Sustainable Synthesis of Cadmium Sulfide, with Applicability in Photocatalysis, Hydrogen Production, and as an Antibacterial Agent, Using Two Mechanochemical Protocols. Nanomaterials, 2022, 12, 1250.	4.1	13
33	Zn source-dependent magnetic properties of undoped ZnO nanoparticles from mechanochemically derived hydrozincite. Journal of Alloys and Compounds, 2019, 787, 1249-1259.	5.5	12
34	Mechanochemically Synthesised Zn <sub>x</sub> Cd <sub>1-x</sub> S Nanoparticles for Solar Energy Applications. Journal of Nano Research, 0, 18-19, 247-256.	0.8	11
35	Properties of mechanochemically synthesized nanocrystalline Bi2S3 particles. Materials Science in Semiconductor Processing, 2014, 27, 267-272.	4.0	11
36	Scalable and environmentally friendly mechanochemical synthesis of nanocrystalline rhodostannite (Cu2FeSn3S8). Powder Technology, 2021, 388, 192-200.	4.2	11

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37	PbS nanostructures synthesized via surfactant assisted mechanochemical route. Open Chemistry, 2009, 7, 215-221.	1.9	10
38	Comparative Study of Nanostructured CuSe Semiconductor Synthesized in a Planetary and Vibratory Mill. Nanomaterials, 2020, 10, 2038.	4.1	10
39	Mechanochemical synthesis of ternary chalcogenide chalcostibite CuSbS2 and its characterization. Journal of Materials Science: Materials in Electronics, 2021, 32, 22898-22909.	2.2	9
40	Mechanochemistry for Energy Materials: Impact of Highâ€Energy Milling on Chemical, Electric and Thermal Transport Properties of Chalcopyrite CuFeS <sub>2</sub> Nanoparticles. ChemistryOpen, 2021, 10, 806-814.	1.9	9
41	Sustainable One-Step Solid-State Synthesis of Antibacterially Active Silver Nanoparticles Using Mechanochemistry. Nanomaterials, 2020, 10, 2119.	4.1	8
42	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.	5.2	7
43	Advantageous mechanochemical synthesis of copper(I) selenide semiconductor, characterization, and properties. Frontiers of Chemical Science and Engineering, 2022, 16, 433-442.	4.4	7
44	SDS-Stabilized CuInSe2/ZnS Multinanocomposites Prepared by Mechanochemical Synthesis for Advanced Biomedical Application. Nanomaterials, 2021, 11, 69.	4.1	6
45	Mechanochemically synthesized ternary chalcogenide Cu3SbS4 powders in a laboratory and an industrial mill. Materials Letters, 2021, 291, 129566.	2.6	5
46	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.	3.1	4
47	Mechanochemical Preparation, Characterization and Biological Activity of Stable CuS Nanosuspension Capped by Bovine Serum Albumin. Frontiers in Chemistry, 2022, 10, 836795.	3.6	3