

# Denis Kuznetsov

## List of Publications by Year in descending order

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87  
papers

1,013  
citations

361296  
20  
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477173  
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87  
all docs

87  
docs citations

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times ranked

1415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Considerable Variation of Antibacterial Activity of Cu Nanoparticles Suspensions Depending on the Storage Time, Dispersive Medium, and Particle Sizes. <i>BioMed Research International</i> , 2015, 2015, 1-11.	0.9	67
2	Hollow NiCo <sub>2</sub> O <sub>4</sub> nano-spheres obtained by ultrasonic spray pyrolysis method with superior electrochemical performance for lithium-ion batteries and supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 90-98.	2.9	57
3	Hollow mesoporous heterostructures negative electrode comprised of CoFe <sub>2</sub> O <sub>4</sub> @Fe <sub>3</sub> O <sub>4</sub> for next generation lithium ion batteries. <i>Microporous and Mesoporous Materials</i> , 2018, 272, 1-7.	2.2	48
4	Local field and radiative relaxation rate in a dielectric medium. <i>Journal of Experimental and Theoretical Physics</i> , 2011, 113, 647-658.	0.2	45
5	Hydrangea paniculata flower extract-mediated green synthesis of MgNPs and AgNPs for health care applications. <i>Powder Technology</i> , 2017, 305, 488-494.	2.1	44
6	Effects of composition and production route on structure and catalytic activity for ammonia decomposition reaction of ternary Ni-Mo nitride catalysts. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3854-3860.	3.8	40
7	Ascorbic Acid-Assisted Microwave Synthesis of Mesoporous Ag-Doped Hydroxyapatite Nanorods from Biowaste Seashells for Implant Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 2280-2293.	2.3	40
8	Anisotropic thermal conductivity of polypropylene composites filled with carbon fibers and multiwall carbon nanotubes. <i>Polymer Composites</i> , 2015, 36, 1951-1957.	2.3	37
9	Trap states in multication mesoscopic perovskite solar cells: A deep levels transient spectroscopy investigation. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	33
10	High seebeck coefficient thermo-electrochemical cell using nickel hollow microspheres electrodes. <i>Renewable Energy</i> , 2020, 157, 1-8.	4.3	32
11	Synthesis of hollow nanostructured nickel oxide microspheres by ultrasonic spray atomization. <i>Journal of Aerosol Science</i> , 2016, 98, 30-40.	1.8	29
12	Current state and perspectives for organo-halide perovskite solar cells. Part 1. Crystal structures and thin film formation, morphology, processing, degradation, stability improvement by carbon nanotubes. A review. <i>Modern Electronic Materials</i> , 2017, 3, 1-25.	0.2	29
13	Elaboration, characterization and magnetic properties of cobalt nanoparticles synthesized by ultrasonic spray pyrolysis followed by hydrogen reduction. <i>Materials Research Bulletin</i> , 2017, 86, 80-87.	2.7	27
14	Erosion resistance and performance characteristics of niobium ultrasonic sonotrodes in molten aluminum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 35, 76-83.	1.7	25
15	Rapid Biosynthesis of AgNPs Using Soil Bacterium <i>Azotobacter vinelandii</i> With Promising Antioxidant and Antibacterial Activities for Biomedical Applications. <i>Jom</i> , 2017, 69, 1206-1212.	0.9	25
16	Allamanda cathartica flower's aqueous extract-mediated green synthesis of silver nanoparticles with excellent antioxidant and antibacterial potential for biomedical application. <i>MRS Communications</i> , 2016, 6, 41-46.	0.8	24
17	Tris(ethylene diamine) nickel acetate as a promising precursor for hole transport layer in planar structured perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6179-6186.	2.7	24
18	Nanomaterials in refractory technology. <i>Refractories and Industrial Ceramics</i> , 2010, 51, 61-63.	0.2	23

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19	Green Synthesis of NiFe <sub>2</sub> O <sub>4</sub> Spinel-Structured Nanoparticles Using Hydrangea paniculata Flower Extract with Excellent Magnetic Property. <i>Jom</i> , 2018, 70, 1337-1343.	0.9	22
20	ZnO/Cu <sub>2</sub> MgO <sub>3</sub> hollow porous nanocage: A new class of hybrid anode material for advanced lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 763, 94-101.	2.8	22
21	Hollow (Co <sub>0.62</sub> Fe <sub>1.38</sub> )FeO <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> nanoboxes with porous shell synthesized via chemical precipitation: A novel form as a high performance lithium ion battery anode. <i>Microporous and Mesoporous Materials</i> , 2017, 247, 9-15.	2.2	18
22	One-pot ultrasonic spray pyrolysis mediated hollow Mg <sub>0.25</sub> Cu <sub>0.25</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> /NiFe <sub>2</sub> O <sub>4</sub> nanocomposites: A promising anode material for high-performance lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2017, 725, 665-672.	2.8	18
23	Influence of surface modification of potassium polytitanates on the mechanical properties of polymer composites thereof. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 765-771.	0.1	16
24	Floral Biosynthesis of Mn <sub>3</sub> O <sub>4</sub> and Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Using Chaenomeles sp. Flower Extracts for Efficient Medicinal Applications. <i>Jom</i> , 2017, 69, 1325-1333.	0.9	15
25	Structural special features in nanodispersed Ni-SiO <sub>2</sub> composite materials produced by method of chemical dispersion. <i>Inorganic Materials: Applied Research</i> , 2010, 1, 57-63.	0.1	14
26	Analysis of the effect of preparation conditions for potassium polytitanates on their morphological properties. <i>Refractories and Industrial Ceramics</i> , 2012, 52, 393-397.	0.2	14
27	Hollow Cu <sub>0.10</sub> Mg <sub>0.40</sub> Zn <sub>0.50</sub> Fe <sub>2</sub> O <sub>4</sub> /Ca <sub>2</sub> Ni <sub>5</sub> nanocomposite: A novel form as anode material in lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2017, 710, 501-509.	2.8	14
28	Characteristics of Co <sub>3</sub> O <sub>4</sub> and cobalt nanostructured microspheres: Morphology, structure, reduction process, and magnetic properties. <i>Materials Research Bulletin</i> , 2018, 99, 189-195.	2.7	14
29	Using BBGKY hierarchies to study the effect of the local field on the rate of radiative relaxation of quantum systems in a dielectric medium. <i>Theoretical and Mathematical Physics (Russian Federation)</i> , 2011, 168, 1078-1095.	0.3	12
30	Investigation of discharged aerosol nanoparticles during chemical precipitation and spray pyrolysis for developing safety measures in the nano research laboratory. <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 116-123.	2.9	12
31	Preparation of nickel oxide nanostructured powders under the action of ultrasound. <i>Nanotechnologies in Russia</i> , 2010, 5, 493-497.	0.7	11
32	Acute toxic and cytogenetic effects of carbon nanotubes on aquatic organisms and bacteria. <i>Nanotechnologies in Russia</i> , 2012, 7, 509-516.	0.7	11
33	Formation of SiO and Related Si-Based Materials Through Carbothermic Reduction of Silica-Containing Slag. <i>Materials Transactions</i> , 2005, 46, 827-834.	0.4	10
34	Emission spectra and intrinsic optical bistability in a two-level medium. <i>European Physical Journal D</i> , 2011, 64, 511-520.	0.6	9
35	Synthesis of five metal based nanocomposite via ultrasonic high temperature spray pyrolysis with excellent antioxidant and antibacterial activity. <i>RSC Advances</i> , 2016, 6, 37628-37632.	1.7	9
36	Mechanochemical synthesis of ultradispersed powders of manganese and zinc oxides. <i>Inorganic Materials: Applied Research</i> , 2011, 2, 5-9.	0.1	8

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37	Morphometric Parameters and Biochemical Status of Oilseed Rape Exposed to Fine-Dispersed Metallurgical Sludge, PHMB-Stabilized Silver Nanoparticles and Multi-Wall Carbon Nanotubes. <i>Advanced Materials Research</i> , 2014, 880, 212-218.	0.3	8
38	Aggregation of manufactured nanoparticles in aqueous solutions of mono- and bivalent electrolytes. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	8
39	Exploiting Le Chatelier's principle for a one-pot synthesis of nontoxic HHogGNPs with the sharpest nanoscopic features suitable for tunable plasmon spectroscopy and high throughput SERS sensing. <i>Chemical Communications</i> , 2017, 53, 10402-10405.	2.2	7
40	Development of a procedure for modifying nanomaterials of mullite-corundum mixes in equipment with a high-intensity rotating electromagnetic field. <i>Refractories and Industrial Ceramics</i> , 2012, 53, 54-58.	0.2	6
41	Tunable organic PV parallel tandem with ionic gating. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	0.8	6
42	Single source chemical vapor deposition (ssCVD) for highly luminescent inorganic halide perovskite films. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	6
43	Synthesis of water-soluble core/shell CdS/ZnS nanoparticles at room temperature under ultrasonic irradiation: Potential for human serum detection. <i>Inorganic Materials</i> , 2016, 52, 256-261.	0.2	5
44	Synthesis and Study of the Composition of Hollow Microspheres of NiO and NiO/Ni Composition for Thermochemical Energy Converters of Low-Potential Temperature Gradients of Thermal Units Into Electricity. <i>Refractories and Industrial Ceramics</i> , 2021, 61, 715-719.	0.2	5
45	Ion Dynamics in Single and Multi-Cation Perovskite. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 065015.	0.9	5
46	A New Ultrasound-Assisted Method of Wastewater Treatment By Air-Stable Nanosized Zero-Valent Iron. <i>Advanced Electrochemistry</i> , 2013, 1, 83-86.	0.1	5
47	Direct experimental observation of salt induced aspect ratio tunable PFPT silver-nanowire formation: SERS-based ppt level Hg <sup>2+</sup> sensing from ground water. <i>RSC Advances</i> , 2016, 6, 45279-45289.	1.7	4
48	Development of a Triplet-Triplet Absorption Ruler: DNA- and Chromatin-Mediated Drug Molecule Release from a Nanosurface. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6872-6881.	1.2	4
49	The Room-Temperature Chemiresistive Properties of Potassium Titanate Whiskers versus Organic Vapors. <i>Nanomaterials</i> , 2017, 7, 455.	1.9	4
50	Physical and biological properties of silicon nanopowders obtained by the chemicothermal method. <i>Nanotechnologies in Russia</i> , 2013, 8, 54-58.	0.7	3
51	Bimetallic Ni-Mo Nitride as the Carbon Dioxide Hydrogenation Catalyst. <i>Advanced Materials Research</i> , 2013, 872, 3-9.	0.3	3
52	Stability study of ZnO nanoparticles in aqueous solutions of carboxylate anions. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	3
53	The effects of liquid-phase oxidation of multiwall carbon nanotubes on their surface characteristics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 112, 012004.	0.3	3
54	Study of Chemical and Morphological Transformations during Ni <sub>2</sub> Mo <sub>3</sub> N Synthesis via an Oxide Precursor Nitration Route. <i>Catalysts</i> , 2018, 8, 436.	1.6	3

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55	Physicomechanical properties of a composite material based on ultrahigh-molecular-weight polyethylene filled with ceramic particles. Russian Metallurgy (Metally), 2012, 2012, 344-349.	0.1	2
56	High Physicochemical Persistence of Aluminum Nanoparticles in Synthetic Body Fluids. Advanced Materials Research, 0, 872, 248-256.	0.3	2
57	Silicide Ceramic Synthesis Based on Molybdenum Disilicide in a Combustion Regime Under High-Temperature Deformation Conditions. Refractories and Industrial Ceramics, 2015, 56, 304-309.	0.2	2
58	Exposure of nano- and ultrafine Ni particles to synthetic biological solutions: predicting fate-related dissolution and accumulation. European Journal of Nanomedicine, 2016, 8, .	0.6	2
59	Metallurgical Slag-Based Concrete Materials Produced by Vortex Electromagnetic Activation. Key Engineering Materials, 0, 683, 221-226.	0.4	2
60	Preparation of hollow spherical particles of ferrite strontium $SrFe_{1-x}O_{\delta}$ by spray-pyrolysis. Novye Ogneupory (new Refractories), 2021, , 62-65.	0.1	2
61	Defects in Turbogenerators and Methods for Their Early Diagnostics. Power Technology and Engineering, 2004, 38, 230-235.	0.1	1
62	Characterization of Si-Based Nanoparticulates Produced by Carbothermic Reduction of Silica-Containing Slag. Materials Transactions, 2005, 46, 3044-3050.	0.4	1
63	Peculiarities of Friction and Depreciation of Contact Surfaces in High-Temperature Lead and Lead-Bismuth Coolants of Reactor Loops. , 2010, , .		1
64	Physicomechanical and exploitation properties of nanostructured wear-resistant ion-plasma vacuum-arc coatings on the basis of multicomponent nitrides. Russian Journal of Non-Ferrous Metals, 2011, 52, 388-392.	0.2	1
65	Morphology and structure study of dispersed nickel-molybdenum powders produced by different methods. Moscow University Chemistry Bulletin, 2012, 67, 270-274.	0.2	1
66	Detection and elimination of defects in the stator core suspension of high-power turbogenerators. Power Technology and Engineering, 2013, 46, 500-504.	0.1	1
67	Surface Acid-Base Characteristics and their Contribution to Aggregative Stability of Nanoparticles. Advanced Materials Research, 2013, 872, 263-270.	0.3	1
68	Investigation into the oxidation of cobalt and nickel nanopowders. Russian Journal of Non-Ferrous Metals, 2014, 55, 581-584.	0.2	1
69	Solubility of Nickel Nanoparticles in Simulated Body Fluids. Advanced Materials Research, 0, 880, 248-252.	0.3	1
70	Synthesis of Cobalt Nanopowder Using Surfactants of Different Nature. Advanced Materials Research, 2015, 1085, 7-11.	0.3	1
71	Energy effective approach for activation of metallurgical slag. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012011.	0.3	1
72	Ultrasound-assisted synthesis of nanosized zero-valent iron for metal cations extraction and wastewater treatment applications. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012012.	0.3	1

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73	Simulation of hydrogen adsorption on carbon nanotubes with different chirality parameters. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012006.	0.3	1
74	Modification of membrane materials used in dried blood spot technology by zinc oxide nanoparticles. Moscow University Chemistry Bulletin, 2016, 71, 60-64.	0.2	1
75	The research of structure and mechanical properties of superhard electro-spark coatings for hardwearing mining tools. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012021.	0.3	1
76	Wear of the pipe-spacing grating pair of a steam generator in a lead heat carrier. Journal of Machinery Manufacture and Reliability, 2009, 38, 467-471.	0.1	0
77	Investigation of nuclear-reactor friction units operating in heavy high-temperature liquid-metal heat carriers. Part 1. Experimental equipment. Journal of Friction and Wear, 2009, 30, 317-323.	0.1	0
78	Steady-state fluorescence intensity of two identical atoms with dipole-dipole interaction. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 648-652.	0.1	0
79	Improvement of periclase-carbon torcrete-mix slag resistance1. Refractories and Industrial Ceramics, 2013, 53, 326-329.	0.2	0
80	Solution of the inverse problem of light beating spectroscopy using singular value decomposition for analyzing the composition of polydisperse suspensions of nanoparticles. Moscow University Chemistry Bulletin, 2013, 68, 265-272.	0.2	0
81	Solution of inverse problem of light beating spectroscopy using Tikhonov method of regularization for analyzing polydisperse suspensions of nanoparticles. Moscow University Chemistry Bulletin, 2013, 68, 238-245.	0.2	0
82	Polymer Stabilized Undoped and Copper Doped Cadmium Sulphide Nanoparticles: Polymer Crosslinked, Optical, and Thermal Stability. Applied Mechanics and Materials, 2014, 492, 291-296.	0.2	0
83	Recent advances and future perspectives of nanosized zero-valent iron for extraction of heavy elements from metallurgical sludges. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012029.	0.3	0
84	Investigation of mechanical properties of masterbatches and composites with small additions of CNTs. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012019.	0.3	0
85	Synthesis and study of the composition of hollow microspheres of composition NiO and NiO / Ni for thermoelectrochemical energy converters of low-potential temperature gradients of thermal aggregates into electricity. Novye Ogneupory (new Refractories), 2021, , 49-53.	0.1	0
86	Influence of Ni / NiO Ratio on the Performance of Thermoelectrochemical Waste Heat Harvester Based on Hollow Microspheres. IOP Conference Series: Materials Science and Engineering, 2021, 1079, 052070.	0.3	0
87	Preparation of Hollow Spherical Particles of Strontium Ferrite SrFe <sub>12</sub> O <sub>19</sub> by Spray-Pyrolysis. Refractories and Industrial Ceramics, 2021, 62, 483.	0.2	0