

Alexander B Shcherbakov

List of Publications by Year in descending order

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52
papers

1,293
citations

377584

21
h-index

425179

34
g-index

56
all docs

56
docs citations

56
times ranked

1585
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous and crystalline cerium phosphates: biocompatible ROS-scavenging sunscreens. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1775-1785.	2.9	3
2	CeO ₂ Nanoparticle-Containing Polymers for Biomedical Applications: A Review. <i>Polymers</i> , 2021, 13, 924.	2.0	67
3	Biological, biomedical and pharmaceutical applications of cerium oxide. , 2020, , 279-358.		30
4	Photochromic and Photocatalytic Properties of Ultra-Small PVP-Stabilized WO ₃ Nanoparticles. <i>Molecules</i> , 2020, 25, 154.	1.7	12
5	PVP-stabilized tungsten oxide nanoparticles: pH sensitive anti-cancer platform with high cytotoxicity. <i>Materials Science and Engineering C</i> , 2020, 108, 110494.	3.8	22
6	Comparative Analysis of Sun Protection Characteristics of Nanocrystalline Cerium Dioxide. <i>Russian Journal of Inorganic Chemistry</i> , 2020, 65, 960-966.	0.3	8
7	UV-Induced Photocatalytic Reduction of Methylene Blue Dye in the Presence of Photochromic Tungsten Oxide Sols. <i>Russian Journal of Inorganic Chemistry</i> , 2020, 65, 1088-1092.	0.3	7
8	Nanoceria-curcumin conjugate: Synthesis and selective cytotoxicity against cancer cells under oxidative stress conditions. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111921.	1.7	15
9	The first inorganic mitogens: Cerium oxide and cerium fluoride nanoparticles stimulate planarian regeneration via neoblastic activation. <i>Materials Science and Engineering C</i> , 2019, 104, 109924.	3.8	22
10	Can tailored nanoceria act as a prebiotic? Report on improved lipid profile and gut microbiota in obese mice. <i>EPMA Journal</i> , 2019, 10, 317-335.	3.3	44
11	Highly reversible photochromism in composite WO ₃ /nanocellulose films. <i>Cellulose</i> , 2019, 26, 9095-9105.	2.4	29
12	Deactivation of singlet oxygen by cerium oxide nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 382, 111925.	2.0	15
13	Highly Crystalline WO ₃ Nanoparticles Are Nontoxic to Stem Cells and Cancer Cells. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-13.	1.5	27
14	PVP-stabilized tungsten oxide nanoparticles (WO ₃) nanoparticles cause hemolysis of human erythrocytes in a dose-dependent manner. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2019, 10, 199-205.	0.2	3
15	Synergetic action of ceria nanoparticles and doxorubicin on the early development of two fish species, <i>Danio rerio</i> and <i>Puntius tetrazona</i> . <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2019, 10, 289-302.	0.2	2
16	Ceria Nanoparticles-Decorated Microcapsules as a Smart Drug Delivery/Protective System: Protection of Encapsulated <i>P. pyralis</i> Luciferase. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14367-14377.	4.0	39
17	Photo-induced toxicity of tungsten oxide photochromic nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 395-403.	1.7	35
18	Nanoparticles of cerium dioxide – an effective antiviral agent and adjuvant of biologically active molecules. <i>ScienceRise Biological Science</i> , 2018, .	0.1	8

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19	Cytotoxicity analysis of gadolinium doped cerium oxide nanoparticles on human mesenchymal stem cells. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2018, , 430-438.	0.2	2
20	Cerium oxide nanoparticles increase the cytotoxicity of TNF-alpha in vitro. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2018, , 537-543.	0.2	1
21	Facile method for fabrication of surfactant-free concentrated CeO ₂ sols. <i>Materials Research Express</i> , 2017, 4, 055008.	0.8	16
22	Efficacy of nanocerium for periodontal tissues alteration in glutamate-induced obese rats – multidisciplinary considerations for personalized dentistry and prevention. <i>EPMA Journal</i> , 2017, 8, 43-49.	3.3	15
23	Layer-by-layer capsules as smart delivery systems of CeO ₂ nanoparticle-based theranostic agents. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2017, , 282-289.	0.2	11
24	Cerium dioxide nanoparticles as third-generation enzymes (nanozymes). <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2017, , 760-781.	0.2	21
25	Facile fabrication of luminescent organic dots by thermolysis of citric acid in urea melt, and their use for cell staining and polyelectrolyte microcapsule labelling. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1905-1917.	1.5	35
26	Interaction of nanocerium with microorganisms. , 2016, , 419-450.		16
27	Cerium dioxide nanoparticles increase immunogenicity of the influenza vaccine. <i>Antiviral Research</i> , 2016, 127, 1-9.	1.9	20
28	Advances and prospects of using nanocrystalline ceria in prolongation of lifespan and healthy aging. <i>Russian Journal of Inorganic Chemistry</i> , 2015, 60, 1595-1625.	0.3	5
29	Cerium fluoride nanoparticles protect cells against oxidative stress. <i>Materials Science and Engineering C</i> , 2015, 50, 151-159.	3.8	50
30	Advances and prospects of using nanocrystalline ceria in cancer theranostics. <i>Russian Journal of Inorganic Chemistry</i> , 2014, 59, 1556-1575.	0.3	29
31	Determination of cerium(III) and cerium(IV) in nanodisperse ceria by chemical methods. <i>Russian Journal of Inorganic Chemistry</i> , 2014, 59, 15-23.	0.3	24
32	Panthenol-stabilized cerium dioxide nanoparticles for cosmetic formulations against ROS-induced and UV-induced damage. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 130, 102-108.	1.7	37
33	Direct monitoring of the interaction between ROS and cerium dioxide nanoparticles in living cells. <i>RSC Advances</i> , 2014, 4, 51703-51710.	1.7	20
34	Preparation of aqueous sols of Ce _{1-x} Gd _x O _{2-δ} /Y _{0.9} Eu _{0.1} VO ₄ and nanocomposites Ce _{1-x} Gd _x O _{2-δ} /Y _{0.9} Eu _{0.1} VO ₄ stabilized by polyacrylic acid. <i>Russian Journal of Inorganic Chemistry</i> , 2013, 58, 1287-1293.	0.3	1
35	Ceria nanoparticles boost activity of aged murine oocytes. <i>Nano Biomedicine and Engineering</i> , 2012, 4, .	0.3	9
36	Microwave-hydrothermal synthesis of gadolinium-doped nanocrystalline ceria in the presence of hexamethylenetetramine. <i>Russian Journal of Inorganic Chemistry</i> , 2012, 57, 1303-1307.	0.3	15

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37	Synthesis and antioxidant activity of biocompatible maltodextrin-stabilized aqueous sols of nanocrystalline ceria. Russian Journal of Inorganic Chemistry, 2012, 57, 1411-1418.	0.3	22
38	Polyol-mediated synthesis of nanocrystalline ceria doped with neodymium, europium, gadolinium, and ytterbium. Doklady Chemistry, 2012, 443, 82-85.	0.2	4
39	Antibacterial activity of cerium colloids against opportunistic microorganisms in vitro. MikrobiologichnyĀ-Zhurnal, 2012, 74, 54-62.	0.2	15
40	Photodynamic Activity of Nanogold-Doped Foton: Free Radicals Versus Singlet Oxygen. Forum on Immunopathological Diseases and Therapeutics, 2011, 2, 237-246.	0.1	2
41	Inhibition of adrenaline autooxidation by nanocrystalline ceria. Doklady Chemistry, 2011, 437, 60-62.	0.2	3
42	One-stage synthesis of ceria colloid solutions for biomedical use. Doklady Chemistry, 2011, 437, 103-106.	0.2	29
43	Nanocrystalline ceria based materials – Perspectives for biomedical application. Biophysics (Russian) Tj ETQq1 1 0,784314 rgBT /Ove 0,2 41	0.2	41
44	UV-shielding property, photocatalytic activity and photocytotoxicity of ceria colloid solutions. Journal of Photochemistry and Photobiology B: Biology, 2011, 102, 32-38.	1.7	143
45	Microwave-hydrothermal synthesis of stable nanocrystalline ceria sols for biomedical uses. Russian Journal of Inorganic Chemistry, 2010, 55, 1-5.	0.3	11
46	Synthesis and thermal stability of nanocrystalline ceria sols stabilized by citric and polyacrylic acids. Russian Journal of Inorganic Chemistry, 2010, 55, 328-332.	0.3	33
47	Inactivation of the nitroxyl radical by ceria nanoparticles. Doklady Chemistry, 2010, 430, 43-46.	0.2	10
48	Synthesis of nanocrystalline solid solutions $Ce_{1-x}R_xO_2$ (R = Nd, Eu) by the homogeneous hydrolysis method. Doklady Chemistry, 2010, 433, 183-185.	0.2	4
49	Thermal stability of nanocrystalline CeO ₂ prepared through freeze drying. Inorganic Materials, 2010, 46, 43-46.	0.2	15
50	Photodynamic activity of hematoporphyrin conjugates with gold nanoparticles: experiments in vitro. Experimental Oncology, 2010, 32, 44-7.	0.4	25
51	Antioxidant activity of nanocrystalline ceria to anthocyanins. Russian Journal of Inorganic Chemistry, 2009, 54, 1522-1527.	0.3	21
52	Structure-sensitive properties and biomedical applications of nanodispersed cerium dioxide. Russian Chemical Reviews, 2009, 78, 855-871.	2.5	145