

Sudipta Seal

List of Publications by Year in descending order

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303
papers

31,568
citations

5782

84
h-index

5244

171
g-index

315
all docs

315
docs citations

315
times ranked

35908
citing authors

#	ARTICLE	IF	CITATIONS
1	Ameliorating hydroxychloroquine induced retinal toxicity through cerium oxide nanoparticle treatments. <i>Journal of Biomaterials Applications</i> , 2022, 36, 1033-1041.	1.2	6
2	Nanoparticle mediated <scp>RNA</scp> delivery for wound healing. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1741.	3.3	16
3	Cerium oxide nanoparticle conjugation to microRNA-146a mechanism of correction for impaired diabetic wound healing. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102483.	1.7	28
4	Machine learning approach to thickness prediction from <i>in situ</i> spectroscopic ellipsometry data for atomic layer deposition processes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	5
5	Photopolymerized Zwitterionic Hydrogels with a Sustained Delivery of Cerium Oxide Nanoparticle-miR146a Conjugate Accelerate Diabetic Wound Healing. <i>ACS Applied Bio Materials</i> , 2022, 5, 1092-1103.	2.3	10
6	Silk Fibroin-Based Therapeutics for Impaired Wound Healing. <i>Pharmaceutics</i> , 2022, 14, 651.	2.0	27
7	Unveiling enhanced oxidation resistance and mechanical integrity of multicomponent ultra-high temperature carbides. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2500-2516.	1.9	15
8	UnbiasedDTI: Mitigating Real-World Bias of Drug-Target Interaction Prediction by Using Deep Ensemble-Balanced Learning. <i>Molecules</i> , 2022, 27, 2980.	1.7	10
9	In Situ Investigation of Deformation Mechanisms Induced by Boron Nitride Nanotubes and Nanointerphases in Ti-6Al-4V Alloy. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	4
10	Antiviral nanopharmaceuticals: Engineered surface interactions and virus-selective activity. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, .	3.3	4
11	ALD based nanostructured zinc oxide coated antiviral silk fabric. <i>RSC Advances</i> , 2022, 12, 19327-19339.	1.7	9
12	AttentionSiteDTI: an interpretable graph-based model for drug-target interaction prediction using NLP sentence-level relation classification. <i>Briefings in Bioinformatics</i> , 2022, 23, .	3.2	35
13	High Figure-Merit Gallium Oxide UV Photodetector on Silicon by Molecular Beam Epitaxy: A Path toward Monolithic Integration. <i>Advanced Photonics Research</i> , 2021, 2, 2000067.	1.7	8
14	Characterization of a nitric oxide (NO) donor molecule and cerium oxide nanoparticle (CNP) interactions and their synergistic antimicrobial potential for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 163-177.	5.0	33
15	Cerium oxide nanomaterial with dual antioxidative scavenging potential: Synthesis and characterization. <i>Journal of Biomaterials Applications</i> , 2021, 36, 834-842.	1.2	16
16	Tomographic Study of Mesopore Formation in Ceria Nanorods. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10077-10089.	1.5	7
17	Multi-functional cerium oxide nanoparticles regulate inflammation and enhance osteogenesis. <i>Materials Science and Engineering C</i> , 2021, 124, 112041.	3.8	35
18	Cerium oxide nanoparticle delivery of microRNA-146a for local treatment of acute lung injury. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102388.	1.7	26

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19	Cerium oxide nanoparticles protect against irradiation-induced cellular damage while augmenting osteogenesis. <i>Materials Science and Engineering C</i> , 2021, 126, 112145.	3.8	19
20	Metal-Mediated Nanoscale Cerium Oxide Inactivates Human Coronavirus and Rhinovirus by Surface Disruption. <i>ACS Nano</i> , 2021, 15, 14544-14556.	7.3	37
21	High-throughput and versatile design for multi-layer coating deposition using lab automation through Arduino-controlled devices. <i>Review of Scientific Instruments</i> , 2021, 92, 084105.	0.6	3
22	DNA-Modified Plasmonic Sensor for the Direct Detection of Virus Biomarkers from the Blood. <i>Nano Letters</i> , 2021, 21, 7505-7511.	4.5	24
23	Nanoceria, the versatile nanoparticles: Promising biomedical applications. <i>Journal of Controlled Release</i> , 2021, 338, 164-189.	4.8	55
24	GO-CeO ₂ , nanohybrid for ultra-rapid fluoride removal from drinking water. <i>Science of the Total Environment</i> , 2021, 793, 148547.	3.9	29
25	In situ ellipsometry aided rapid ALD process development and parameter space visualization of cerium oxide nanofilms. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	3
26	Lung function improves after delayed treatment with CNP-miR146a following acute lung injury. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 40, 102498.	1.7	5
27	Aging of Nanoscale Cerium Oxide in a Peroxide Environment: Its Influence on the Redox, Surface, and Dispersion Character. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27323-27334.	1.5	10
28	Sensitization of breast cancer to Herceptin by redox active nanoparticles. <i>American Journal of Cancer Research</i> , 2021, 11, 4884-4899.	1.4	0
29	Injectable, self-healable zwitterionic cryogels with sustained microRNA - cerium oxide nanoparticle release promote accelerated wound healing. <i>Acta Biomaterialia</i> , 2020, 101, 262-272.	4.1	74
30	Spatial Atomic Layer Deposition of Molybdenum Oxide for Industrial Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000895.	1.9	18
31	Nanosilk Increases the Strength of Diabetic Skin and Delivers CNP-miR146a to Improve Wound Healing. <i>Frontiers in Immunology</i> , 2020, 11, 590285.	2.2	31
32	Ceria Nanoparticles Decrease UVA-Induced Fibroblast Death Through Cell Redox Regulation Leading to Cell Survival, Migration and Proliferation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 577557.	2.0	25
33	Silk fibroin nanofibrous mats for visible sensing of oxidative stress in cutaneous wounds. <i>Biomaterials Science</i> , 2020, 8, 5900-5910.	2.6	16
34	Synthesis of Superior Visible-Light-Driven Nanophotocatalyst Using High Surface Area TiO ₂ Nanoparticles Decorated with Cu ₂ O Particles. <i>Catalysts</i> , 2020, 10, 872.	1.6	8
35	Role of microRNA-21 and Its Underlying Mechanisms in Inflammatory Responses in Diabetic Wounds. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3328.	1.8	44
36	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. <i>Scientific Reports</i> , 2020, 10, 3583.	1.6	16

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37	Engineered defects in cerium oxides: tuning chemical reactivity for biomedical, environmental, & energy applications. <i>Nanoscale</i> , 2020, 12, 6879-6899.	2.8	79
38	Tuning the responsivity of monoclinic $(\text{In}_x\text{Ga}_{1-x})_2\text{O}_3$ solar-blind photodetectors grown by metal organic chemical vapor deposition. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 454001.	1.3	21
39	Ultra-high arsenic adsorption by graphene oxide iron nanohybrid: Removal mechanisms and potential applications. <i>Chemosphere</i> , 2020, 253, 126702.	4.2	81
40	Exposure to nanoceria impacts larval survival, life history traits and fecundity of <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008654.	1.3	9
41	Ceria Nanoparticles Mitigate the Iron Oxidative Toxicity of Human Retinal Pigment Epithelium. <i>Cureus</i> , 2020, 12, e9675.	0.2	2
42	Aptamer-gold nanoparticle conjugates for the colorimetric detection of arboviruses and vector mosquito species. <i>RSC Advances</i> , 2019, 9, 23752-23763.	1.7	37
43	Computer-Aided Design of Nanoceria Structures as Enzyme Mimetic Agents: The Role of Bodily Electrolytes on Maximizing Their Activity. <i>ACS Applied Bio Materials</i> , 2019, 2, 1098-1106.	2.3	25
44	Multiplex Viral Detection Platform Based on a Aptamers-Integrated Microfluidic Channel. <i>ACS Omega</i> , 2019, 4, 2234-2240.	1.6	23
45	Antioxidant properties of ALD grown nanoceria films with tunable valency. <i>Biomaterials Science</i> , 2019, 7, 3051-3061.	2.6	20
46	Scalable ternary hierarchical microspheres composed of PANI/ rGO/CeO ₂ for high performance supercapacitor applications. <i>Carbon</i> , 2019, 151, 192-202.	5.4	107
47	An unexpected phase transformation of ceria nanoparticles in aqueous media. <i>Journal of Materials Research</i> , 2019, 34, 465-473.	1.2	13
48	Microsensor for limonin detection: An indicator of citrus greening disease. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 724-730.	4.0	16
49	Use of Cerium Oxide Nanoparticles Conjugated with MicroRNA-146a to Correct the Diabetic Wound Healing Impairment. <i>Journal of the American College of Surgeons</i> , 2019, 228, 107-115.	0.2	99
50	Enzyme-Free Plasmonic Biosensor for Direct Detection of Neurotransmitter Dopamine from Whole Blood. <i>Nano Letters</i> , 2019, 19, 449-454.	4.5	80
51	<i>In-situ</i> observation of radiation physics and chemistry of nanostructured cerium oxide in water. <i>Materials Research Express</i> , 2019, 6, 015032.	0.8	6
52	Temporal Distribution Patterns of Alexa Fluor 647-Conjugated CeNPs in the Mouse Retina After a Single Intravitreal Injection. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 125-130.	0.8	5
53	Steam oxidation resistance and performance of newly developed coatings for Haynes® 282® Ni-based alloy. <i>Corrosion Science</i> , 2018, 138, 326-339.	3.0	7
54	Atmospheric Deposition of Modified Graphene Oxide on Silicon by Evaporation-Assisted Deposition. <i>ACS Omega</i> , 2018, 3, 1154-1158.	1.6	4

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55	Synthesis and modification of mercapto-submicron scavenger for real-time extraction and preconcentration of As(<i>scp</i>). <i>Analytical Methods</i> , 2018, 10, 245-255.	1.3	6
56	Temperature Sensitivity of Composite Propellants Containing Novel Nano-Additive Catalysts. <i>Journal of Propulsion and Power</i> , 2018, 34, 795-807.	1.3	14
57	Wearable Devices: Fiber-Type Solar Cells, Nanogenerators, Batteries, and Supercapacitors for Wearable Applications (<i>Adv. Sci.</i> 9/2018). <i>Advanced Science</i> , 2018, 5, 1870057.	5.6	3
58	Cerium oxide nanoparticles at the nano-bio interface: size-dependent cellular uptake. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 956-963.	1.9	38
59	Cerium Oxide Nanoparticles Sensitize Pancreatic Cancer to Radiation Therapy through Oxidative Activation of the JNK Apoptotic Pathway. <i>Cancers</i> , 2018, 10, 303.	1.7	33
60	Engineered nanoceria cytoprotection <i>in vivo</i> : mitigation of reactive oxygen species and double-stranded DNA breakage due to radiation exposure. <i>Nanoscale</i> , 2018, 10, 21069-21075.	2.8	37
61	Highly selective aptamer based organic electrochemical biosensor with pico-level detection. <i>Biosensors and Bioelectronics</i> , 2018, 117, 40-46.	5.3	54
62	Morphology and Crystal Planes Effects on Supercapacitance of CeO ₂ Nanostructures: Electrochemical and Molecular Dynamics Studies. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800176.	1.2	38
63	Ignition Delay Times of Composite Solid Propellants Using Novel Nano-Additive Catalysts. <i>Journal of Propulsion and Power</i> , 2018, 34, 1285-1296.	1.3	19
64	Fiber-Type Solar Cells, Nanogenerators, Batteries, and Supercapacitors for Wearable Applications. <i>Advanced Science</i> , 2018, 5, 1800340.	5.6	108
65	Tissue deposition and toxicological effects of commercially significant rare earth oxide nanomaterials: Material and physical properties. <i>Environmental Toxicology</i> , 2017, 32, 904-917.	2.1	22
66	High-Throughput, Protein-Targeted Biomolecular Detection Using Frequency-Domain Faraday Rotation Spectroscopy. <i>Small</i> , 2017, 13, 1602862.	5.2	5
67	MicroRNA-211 Regulates Oxidative Phosphorylation and Energy Metabolism in Human Vitiligo. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1965-1974.	0.3	55
68	Molybdenum disulfide for ultra-low detection of free radicals: electrochemical response and molecular modeling. <i>2D Materials</i> , 2017, 4, 025077.	2.0	21
69	One-pot synthesis of a ceria-graphene oxide composite for the efficient removal of arsenic species. <i>Nanoscale</i> , 2017, 9, 3367-3374.	2.8	48
70	Nanoparticle delivery of curcumin induces cellular hypoxia and ROS-mediated apoptosis via modulation of Bcl-2/Bax in human neuroblastoma. <i>Nanoscale</i> , 2017, 9, 10375-10387.	2.8	86
71	Reactive wetting and filling of boron nitride nanotubes by molten aluminum during equilibrium solidification. <i>Acta Materialia</i> , 2017, 126, 124-131.	3.8	44
72	Comparison of Commercially Available and Synthesized Titania Nano-Additives in Composite HTPB/AP Propellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 158-166.	1.0	8

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73	Anisotropic electrical conductivity in polymer derived ceramics induced by graphene aerogels. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11708-11716.	2.7	32
74	Colorimetric detection of epinephrine using an optimized paper-based aptasensor. <i>RSC Advances</i> , 2017, 7, 49133-49143.	1.7	30
75	Modulating the Catalytic Activity of Cerium Oxide Nanoparticles with the Anion of the Precursor Salt. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20039-20050.	1.5	26
76	Characterizing the phosphatase mimetic activity of cerium oxide nanoparticles and distinguishing its active site from that for catalase mimetic activity using anionic inhibitors. <i>Environmental Science: Nano</i> , 2017, 4, 1742-1749.	2.2	41
77	Picomolar Detection of Hydrogen Peroxide using Enzyme-free Inorganic Nanoparticle-based Sensor. <i>Scientific Reports</i> , 2017, 7, 1324.	1.6	30
78	2D MoS ₂ /glassy carbon based electrochemical sensor for pico-molar detection of hydrogen peroxide and hypochlorous acid. , 2016, , .		1
79	Functional NiAl-graphene oxide composite as a model coating for aerospace component repair. <i>Carbon</i> , 2016, 105, 529-543.	5.4	30
80	Effect of amine-modified boron nitride (BN) on ammonium perchlorate decomposition. <i>RSC Advances</i> , 2016, 6, 89635-89641.	1.7	15
81	Mechanical Properties of Composite AP/HTPB Propellants Containing Novel Titania Nanoparticles. <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 822-834.	1.0	17
82	Structure-Activity Map of Ceria Nanoparticles, Nanocubes, and Mesoporous Architectures. <i>Chemistry of Materials</i> , 2016, 28, 7287-7295.	3.2	53
83	Adjuvants in micro-to nanoscale: current state and future direction. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 61-84.	3.3	11
84	Redox-Sensitive Cerium Oxide Nanoparticles Protect Human Keratinocytes from Oxidative Stress Induced by Glutathione Depletion. <i>Langmuir</i> , 2016, 32, 12202-12211.	1.6	81
85	Cerium Oxide Nanoparticles: A Potential Medical Countermeasure to Mitigate Radiation-Induced Lung Injury in CBA/J Mice. <i>Radiation Research</i> , 2016, 185, 516-526.	0.7	37
86	Hypochlorite scavenging activity of cerium oxide nanoparticles. <i>RSC Advances</i> , 2016, 6, 62911-62915.	1.7	6
87	Folic acid tagged nanoceria as a novel therapeutic agent in ovarian cancer. <i>BMC Cancer</i> , 2016, 16, 220.	1.1	111
88	3D tissue engineered micro-tumors for optical-based therapeutic screening platform. , 2016, , .		0
89	Controlling the surface chemistry of cerium oxide nanoparticles for biological applications. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3195-3202.	2.9	111
90	Non-toxic retention of nanoceria in murine eyes. <i>Molecular Vision</i> , 2016, 22, 1176-1187.	1.1	19

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91	Untangling the biological effects of cerium oxide nanoparticles: the role of surface valence states. <i>Scientific Reports</i> , 2015, 5, 15613.	1.6	227
92	Self-Assembly of PEG-Coated Ceria Nanoparticles Shows Dependence on PEG Molecular Weight and Ageing. <i>ChemPlusChem</i> , 2015, 80, 1680-1690.	1.3	5
93	The Change in Antioxidant Properties of Dextran-Coated Redox Active Nanoparticles Due to Synergetic Photoreduction-Oxidation. <i>Chemistry - A European Journal</i> , 2015, 21, 12646-12656.	1.7	13
94	Defining the Catalytic Activity of Nanoceria in the P23H-1 Rat, a Photoreceptor Degeneration Model. <i>PLoS ONE</i> , 2015, 10, e0121977.	1.1	42
95	Electrochemical study of nanoporous gold revealing anti-biofouling properties. <i>RSC Advances</i> , 2015, 5, 46501-46508.	1.7	27
96	Engineering of nanoscale defect patterns in CeO ₂ nanorods via ex situ and in situ annealing. <i>Nanoscale</i> , 2015, 7, 5169-5177.	2.8	51
97	Facile nanoparticle dispersion detection in energetic composites by rare earth doped in metal oxide nanostructures. <i>RSC Advances</i> , 2015, 5, 68305-68313.	1.7	8
98	Recent development in 2D materials beyond graphene. <i>Progress in Materials Science</i> , 2015, 73, 44-126.	16.0	1,152
99	Combination therapy with lenalidomide and nanoceria ameliorates CNS autoimmunity. <i>Experimental Neurology</i> , 2015, 273, 151-160.	2.0	43
100	Ignition Delay Times of Composite Solid Propellants Using Novel Nano-Additive Catalysts. , 2015, , .		4
101	Nanomaterials for wound healing: scope and advancement. <i>Nanomedicine</i> , 2015, 10, 2593-2612.	1.7	160
102	Functionalized graphene aerogel composites for high-performance asymmetric supercapacitors. <i>Nano Energy</i> , 2015, 11, 611-620.	8.2	120
103	Catalytic properties and biomedical applications of cerium oxide nanoparticles. <i>Environmental Science: Nano</i> , 2015, 2, 33-53.	2.2	341
104	Temperature Sensitivity of Composite Propellant Containing Novel Nano-Additive Catalysts. , 2014, , .		3
105	Therapeutic potential of nanoceria in regenerative medicine. <i>MRS Bulletin</i> , 2014, 39, 976-983.	1.7	42
106	Nanoceria and Thioredoxin Regulate a Common Antioxidative Gene Network in tubby Mice. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 829-836.	0.8	4
107	Redox-active nanoparticles in combating neurodegeneration. <i>Nanomedicine</i> , 2014, 9, 2725-2728.	1.7	9
108	Structure and properties of cerium oxides in bulk and nanoparticulate forms. <i>Journal of Alloys and Compounds</i> , 2014, 584, 199-208.	2.8	79

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109	Safety aspects of nanotechnology based activity. <i>Safety Science</i> , 2014, 63, 217-225.	2.6	23
110	Combination of Conventional Chemotherapeutics with Redox-Active Cerium Oxide Nanoparticles—A Novel Aspect in Cancer Therapy. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 1740-1749.	1.9	127
111	In situ synthesis of polyurethane—TiO ₂ nanocomposite and performance in solid propellants. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2313.	5.2	41
112	Sustained inhibition of neovascularization in vldlr ^{-/-} mice following intravitreal injection of cerium oxide nanoparticles and the role of the ASK1-P38/JNK-NF- κ B pathway. <i>Biomaterials</i> , 2014, 35, 249-258.	5.7	79
113	Nanoceria: factors affecting its pro- and anti-oxidant properties. <i>Environmental Science: Nano</i> , 2014, 1, 429-444.	2.2	110
114	Inhibition of Nanoceria's Catalytic Activity due to Ce ³⁺ Site-Specific Interaction with Phosphate Ions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18992-19006.	1.5	63
115	The role of microRNA-15b in the impaired angiogenesis in diabetic wounds. <i>Wound Repair and Regeneration</i> , 2014, 22, 671-677.	1.5	36
116	Redox-active nanoceria depolarize mitochondrial membrane of human colon cancer cells. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	27
117	Understanding the Adsorption Interface of Polyelectrolyte Coating on Redox Active Nanoparticles Using Soft Particle Electrokinetics and Its Biological Activity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5472-5482.	4.0	20
118	Piezospectroscopic Measurements Capturing the Evolution of Plasma Spray-Coating Stresses with Substrate Loads. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1366-1369.	4.0	14
119	Behavior of nanoceria in biologically-relevant environments. <i>Environmental Science: Nano</i> , 2014, 1, 516-532.	2.2	94
120	Cerium oxide nanoparticles protect against A β ² -induced mitochondrial fragmentation and neuronal cell death. <i>Cell Death and Differentiation</i> , 2014, 21, 1622-1632.	5.0	166
121	Bio-distribution and <i>in vivo</i> antioxidant effects of cerium oxide nanoparticles in mice. <i>Environmental Toxicology</i> , 2013, 28, 107-118.	2.1	249
122	Cerium oxide nanoparticles accelerate the decay of peroxynitrite (ONOO ⁻). <i>Drug Delivery and Translational Research</i> , 2013, 3, 375-379.	3.0	85
123	Fabricated Micro-Nano Devices for <i>In vivo</i> and <i>In vitro</i> Biomedical Applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013, 5, 544-568.	3.3	25
124	Laboratory-Scale Burning of Composite Solid Propellant for Studying Novel Nanoparticle Synthesis Methods. , 2013, , .		14
125	Cerium oxide nanoparticles: applications and prospects in nanomedicine. <i>Nanomedicine</i> , 2013, 8, 1483-1508.	1.7	424
126	The chemical behavior and degradation mitigation effect of cerium oxide nanoparticles in perfluorosulfonic acid polymer electrolyte membranes. <i>Polymer Degradation and Stability</i> , 2013, 98, 1766-1772.	2.7	44

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127	Nanoceria inhibit expression of genes associated with inflammation and angiogenesis in the retina of Vldlr null mice. <i>Experimental Eye Research</i> , 2013, 116, 63-74.	1.2	70
128	Cold sprayed aluminum based glassy coating: Synthesis, wear and corrosion properties. <i>Surface and Coatings Technology</i> , 2013, 232, 33-40.	2.2	56
129	Microscale Surface Modifications for Heat Transfer Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9572-9578.	4.0	21
130	Morphological Phase Diagram of Biocatalytically Active Ceria Nanostructures as a Function of Processing Variables and Their Properties. <i>ChemPlusChem</i> , 2013, 78, 1424-1424.	1.3	1
131	The degradation mitigation effect of cerium oxide in polymer electrolyte membranes in extended fuel cell durability tests. <i>Journal of Power Sources</i> , 2013, 225, 75-83.	4.0	92
132	Mitigation of endometriosis using regenerative cerium oxide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 439-448.	1.7	84
133	Sensitization of pancreatic cancer cells to radiation by cerium oxide nanoparticle-induced ROS production. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 558-569.	1.7	269
134	Effects of cerium oxide nanoparticles on the growth of keratinocytes, fibroblasts and vascular endothelial cells in cutaneous wound healing. <i>Biomaterials</i> , 2013, 34, 2194-2201.	5.7	301
135	Downregulation of Tumor Growth and Invasion by Redox-Active Nanoparticles. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 765-778.	2.5	167
136	Oxygenated Functional Group Density on Graphene Oxide: Its Effect on Cell Toxicity. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 148-157.	1.2	173
137	Effect of Processing Parameters on Cerium Oxide Coating Deposition in Solution Precursor Plasma Spray. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2437-2444.	1.9	17
138	Cellular Interaction and Toxicity Depend on Physicochemical Properties and Surface Modification of Redox-Active Nanomaterials. <i>ACS Nano</i> , 2013, 7, 4855-4868.	7.3	179
139	Environment-mediated structure, surface redox activity and reactivity of ceria nanoparticles. <i>Nanoscale</i> , 2013, 5, 6063.	2.8	71
140	Catalytic Nanoceria Are Preferentially Retained in the Rat Retina and Are Not Cytotoxic after Intravitreal Injection. <i>PLoS ONE</i> , 2013, 8, e58431.	1.1	67
141	Morphology and Surface Analysis of Pure and Doped Cuboidal Ceria Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24561-24569.	1.5	31
142	Nanoceria: A Rare-Earth Nanoparticle as a Novel Anti-Angiogenic Therapeutic Agent in Ovarian Cancer. <i>PLoS ONE</i> , 2013, 8, e54578.	1.1	206
143	Morphological Phase Diagram of Biocatalytically Active Ceria Nanostructures as a Function of Processing Variables and Their Properties. <i>ChemPlusChem</i> , 2013, 78, 1446-1455.	1.3	45
144	Immunomodulation and T Helper TH1/TH2 Response Polarization by CeO ₂ and TiO ₂ Nanoparticles. <i>PLoS ONE</i> , 2013, 8, e62816.	1.1	80

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145	Antibacterial Activity of Polymer Coated Cerium Oxide Nanoparticles. PLoS ONE, 2012, 7, e47827.	1.1	91
146	Electron beam induced surface morphology changes of CeO ₂ nanocrystals: An in-situ aberration corrected TEM study. , 2012, , .		1
147	Insight into reactions and interface between boron nitride nanotube and aluminum. Journal of Materials Research, 2012, 27, 2760-2770.	1.2	47
148	Cationic Surface Reconstructions on Cerium Oxide Nanocrystals: An Aberration-Corrected HRTEM Study. ACS Nano, 2012, 6, 421-430.	7.3	53
149	Radiation-Induced Reduction of Ceria in Single and Polycrystalline Thin Films. Journal of Physical Chemistry C, 2012, 116, 361-366.	1.5	26
150	Cerium oxide nanoparticles scavenge nitric oxide radical (•NO). Chemical Communications, 2012, 48, 4896.	2.2	222
151	A facile synthesis of PLGA encapsulated cerium oxide nanoparticles: release kinetics and biological activity. Nanoscale, 2012, 4, 2597.	2.8	48
152	Influence of Aging and Environment on Nanoparticle Chemistry: Implication to Confinement Effects in Nanoceria. Journal of Physical Chemistry C, 2012, 116, 14108-14114.	1.5	103
153	The induction of angiogenesis by cerium oxide nanoparticles through the modulation of oxygen in intracellular environments. Biomaterials, 2012, 33, 7746-7755.	5.7	247
154	Sustained protection against photoreceptor degeneration in tubby mice by intravitreal injection of nanoceria. Biomaterials, 2012, 33, 8771-8781.	5.7	84
155	Harnessing nanoparticles to improve toxicity after head and neck radiation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1223-1231.	1.7	57
156	Scale-Up Effects of Nanoparticle Production on the Burning Rate of Composite Propellant. Combustion Science and Technology, 2012, 184, 750-766.	1.2	28
157	Cerium Oxide Nanoparticle Reduction of Oxidative Damage in Retina. , 2012, , 399-418.		1
158	The Role of MicroRNA-146a in the Pathogenesis of the Diabetic Wound-Healing Impairment. Diabetes, 2012, 61, 2906-2912.	0.3	189
159	Strain and Architecture-Tuned Reactivity in Ceria Nanostructures; Enhanced Catalytic Oxidation of CO to CO ₂ . Chemistry of Materials, 2012, 24, 1811-1821.	3.2	100
160	Antibody-conjugated PEGylated cerium oxide nanoparticles for specific targeting of A β aggregates modulate neuronal survival pathways. Acta Biomaterialia, 2012, 8, 2056-2067.	4.1	145
161	Up conversion luminescence of Yb ³⁺ Er ³⁺ codoped CeO ₂ nanocrystals with imaging applications. Journal of Luminescence, 2012, 132, 743-749.	1.5	59
162	Mechanical properties of ceria nanorods and nanochains; the effect of dislocations, grain-boundaries and oriented attachment. Nanoscale, 2011, 3, 1823.	2.8	42

#	ARTICLE	IF	CITATIONS
163	Influence of aging on the properties of cerium oxide nanoparticles - implications to quantum confinement effect. , 2011, , .		1
164	Development of Highly Active Titania-Based Nanoparticles for Energetic Materials. Journal of Physical Chemistry C, 2011, 115, 10412-10418.	1.5	36
165	Relative Dispersion of Catalytic Nanoparticle Additives and AP Particles in Composite Solid Propellant and the Effect on Burning Rate. , 2011, , .		13
166	Anchoring Ceria Nanoparticles on Reduced Graphene Oxide and Their Electronic Transport Properties. Journal of Physical Chemistry C, 2011, 115, 24494-24500.	1.5	125
167	Impaired Biomechanical Properties of Diabetic Skin. American Journal of Pathology, 2011, 178, 2215-2223.	1.9	103
168	Inhibition of stromal cell-derived factor-1 further impairs diabetic wound healing. Journal of Vascular Surgery, 2011, 53, 774-784.	0.6	50
169	Nanoparticles for Novel Healthcare Therapeutics. , 2011, , 49-55.		0
170	Nanoceria extend photoreceptor cell lifespan in tubby mice by modulation of apoptosis/survival signaling pathways. Neurobiology of Disease, 2011, 42, 514-523.	2.1	136
171	A phosphate-dependent shift in redox state of cerium oxide nanoparticles and its effects on catalytic properties. Biomaterials, 2011, 32, 6745-6753.	5.7	285
172	PEGylated Inorganic Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 1980-1994.	7.2	455
173	Combined cytotoxic and anti-invasive properties of redox-active nanoparticles in tumor stroma interactions. Biomaterials, 2011, 32, 2918-2929.	5.7	208
174	Aging effects of nanoscale ceria in ceria-platinum composite electrodes for direct alcohol electro-oxidation. Electrochimica Acta, 2011, 56, 2541-2545.	2.6	10
175	Boron nitride nanotube reinforced hydroxyapatite composite: Mechanical and tribological performance and in-vitro biocompatibility to osteoblasts. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 44-56.	1.5	182
176	Spark plasma sintered tantalum carbide-carbon nanotube composite: Effect of pressure, carbon nanotube length and dispersion technique on microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2538-2547.	2.6	80
177	Graphene based materials: Past, present and future. Progress in Materials Science, 2011, 56, 1178-1271.	16.0	3,063
178	Apatite formability of boron nitride nanotubes. Nanotechnology, 2011, 22, 205601.	1.3	22
179	Nanoceria Inhibit the Development and Promote the Regression of Pathologic Retinal Neovascularization in the Vldlr Knockout Mouse. PLoS ONE, 2011, 6, e16733.	1.1	129
180	Ultralight Multiwalled Carbon Nanotube Aerogel. ACS Nano, 2010, 4, 7293-7302.	7.3	477

#	ARTICLE	IF	CITATIONS
181	Multicolored redox active upconverter cerium oxide nanoparticle for bio-imaging and therapeutics. <i>Chemical Communications</i> , 2010, 46, 6915.	2.2	118
182	Intermediate temperature tribological behavior of carbon nanotube reinforced plasma sprayed aluminum oxide coating. <i>Surface and Coatings Technology</i> , 2010, 204, 1847-1855.	2.2	44
183	Understanding the toxicity of aggregated zero valent copper nanoparticles against <i>Escherichia coli</i> . <i>Journal of Hazardous Materials</i> , 2010, 180, 212-216.	6.5	96
184	Density functional study of oxygen vacancy formation and spin density distribution in octahedral ceria nanoparticles. <i>Journal of Molecular Modeling</i> , 2010, 16, 1617-1623.	0.8	22
185	Influence of iron and copper nanoparticle powder on the production of lignocellulose degrading enzymes in the fungus <i>Trametes versicolor</i> . <i>Journal of Hazardous Materials</i> , 2010, 178, 1141-1145.	6.5	72
186	Cerium oxide nanoparticles protect gastrointestinal epithelium from radiation-induced damage by reduction of reactive oxygen species and upregulation of superoxide dismutase 2. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 698-705.	1.7	330
187	Phosphate ester hydrolysis of biologically relevant molecules by cerium oxide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 738-744.	1.7	171
188	Synthesis dependent core level binding energy shift in the oxidation state of platinum coated on ceria-titania and its effect on catalytic decomposition of methanol. <i>Applied Catalysis A: General</i> , 2010, 388, 262-271.	2.2	29
189	Synthesis of aluminum oxide coating with carbon nanotube reinforcement produced by chemical vapor deposition for improved fracture and wear resistance. <i>Carbon</i> , 2010, 48, 431-442.	5.4	95
190	Carbon nanotube toughened hydroxyapatite by spark plasma sintering: Microstructural evolution and multiscale tribological properties. <i>Carbon</i> , 2010, 48, 3103-3120.	5.4	184
191	Multi-Parameter Study of Nanoscale TiO_2 and CeO_2 Additives in Composite AP/HTPB Solid Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2010, 35, 143-152.	1.0	44
192	Precursor Dependent Microstructure Evolution and Nonstoichiometry in Nanostructured Cerium Oxide Coatings Using the Solution Precursor Plasma Spray Technique. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3700-3708.	1.9	19
193	Theoretical calculations of hydrogen adsorption by SnO_2 (110) surface: Effect of doping and calcination. <i>Journal of Applied Physics</i> , 2010, 107, 104504.	1.1	15
194	Tuning Hydrated Nanoceria Surfaces: Experimental/Theoretical Investigations of Ion Exchange and Implications in Organic and Inorganic Interactions. <i>Langmuir</i> , 2010, 26, 7188-7198.	1.6	35
195	Rare earth oxides as nanoadditives in 3-D nanocomposite scaffolds for bone regeneration. <i>Journal of Materials Chemistry</i> , 2010, 20, 8912.	6.7	126
196	Redox-active radical scavenging nanomaterials. <i>Chemical Society Reviews</i> , 2010, 39, 4422.	18.7	458
197	Unveiling the mechanism of uptake and sub-cellular distribution of cerium oxide nanoparticles. <i>Molecular BioSystems</i> , 2010, 6, 1813.	2.9	144
198	Nanoceria exhibit redox state-dependent catalase mimetic activity. <i>Chemical Communications</i> , 2010, 46, 2736.	2.2	912

#	ARTICLE	IF	CITATIONS
199	Nanoceria-Modified Platinum-Gold Composite Electrodes for the Electrochemical Oxidation of Methanol and Ethanol in Acidic Media. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4595-4602.	1.5	28
200	A Low-Energy Room-Temperature Hydrogen Nanosensor: Utilizing the Schottky Barriers at the Electrode/Sensing-Material Interfaces. <i>IEEE Electron Device Letters</i> , 2010, 31, 770-772.	2.2	10
201	Growth-rate induced epitaxial orientation of CeO ₂ on Al ₂ O ₃ (0001). <i>Applied Physics Letters</i> , 2009, 94, 204101.	1.5	14
202	Articulation of surfaces for bio-applications. <i>Jom</i> , 2009, 61, 52-52.	0.9	15
203	Anti-inflammatory Properties of Cerium Oxide Nanoparticles. <i>Small</i> , 2009, 5, 2848-2856.	5.2	610
204	Aluminum composite reinforced with multiwalled carbon nanotubes from plasma spraying of spray dried powders. <i>Surface and Coatings Technology</i> , 2009, 203, 1544-1554.	2.2	170
205	Structural transformations in carbon nanotubes during thermal spray processing. <i>Surface and Coatings Technology</i> , 2009, 203, 2193-2201.	2.2	39
206	Protection from radiation-induced pneumonitis using cerium oxide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009, 5, 225-231.	1.7	264
207	Chromium carbide-CNT nanocomposites with enhanced mechanical properties. <i>Acta Materialia</i> , 2009, 57, 335-344.	3.8	58
208	X-ray Photoelectron Spectroscopy and Reactivity Studies of a Series of Ruthenium Catalysts. <i>ChemCatChem</i> , 2009, 1, 144-151.	1.8	18
209	Interface in carbon nanotube reinforced aluminum silicon composites: Thermodynamic analysis and experimental verification. <i>Journal of Alloys and Compounds</i> , 2009, 481, 207-213.	2.8	97
210	Protonated Nanoparticle Surface Governing Ligand Tethering and Cellular Targeting. <i>ACS Nano</i> , 2009, 3, 1203-1211.	7.3	82
211	Luminescence Properties of Europium-Doped Cerium Oxide Nanoparticles: Role of Vacancy and Oxidation States. <i>Langmuir</i> , 2009, 25, 10998-11007.	1.6	254
212	Nano Additives and Plateau Burning Rates of Ammonium-Perchlorate-Based Composite Solid Propellants. <i>Journal of Propulsion and Power</i> , 2009, 25, 1068-1078.	1.3	29
213	PEGylated Nanoceria as Radical Scavenger with Tunable Redox Chemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 14144-14145.	6.6	302
214	Exposure to Titanium Dioxide Nanomaterials Provokes Inflammation of an <i>in Vitro</i> Human Immune Construct. <i>ACS Nano</i> , 2009, 3, 2523-2532.	7.3	152
215	Dopant-mediated oxygen vacancy tuning in ceria nanoparticles. <i>Nanotechnology</i> , 2009, 20, 085713.	1.3	133
216	Abstract C42: Suppression of tumor invasion by inorganic nanoparticles. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
217	The role of cerium redox state in the SOD mimetic activity of nanoceria. <i>Biomaterials</i> , 2008, 29, 2705-2709.	5.7	813
218	Carbon nanotube reinforced aluminum composite coating via cold spraying. <i>Surface and Coatings Technology</i> , 2008, 202, 5162-5169.	2.2	195
219	Nanoceria as antioxidant: Synthesis and biomedical applications. <i>Jom</i> , 2008, 60, 33-37.	0.9	315
220	Characterization challenges for nanomaterials. <i>Surface and Interface Analysis</i> , 2008, 40, 529-537.	0.8	121
221	Self-Assembly of Cerium Oxide Nanostructures in Ice Molds. <i>Small</i> , 2008, 4, 1210-1216.	5.2	37
222	Role of Spray Drying of Nanoagglomerates in Morphology Evolution in Nanostructured APS Coatings. <i>Journal of the American Ceramic Society</i> , 2008, 91, 379-386.	1.9	17
223	Deformation and damage mechanisms of multiwalled carbon nanotubes under high-velocity impact. <i>Scripta Materialia</i> , 2008, 59, 499-502.	2.6	38
224	Nanoceria Particles Prevent ROI-Induced Blindness. <i>Advances in Experimental Medicine and Biology</i> , 2008, 613, 53-59.	0.8	30
225	Fenton-Like Reaction Catalyzed by the Rare Earth Inner Transition Metal Cerium. <i>Environmental Science & Technology</i> , 2008, 42, 5014-5019.	4.6	306
226	Nano Additives and Plateau Burning Rates in Composite Solid Propellants. , 2008, , .		0
227	Defects and symmetry influence on visible emission of Eu doped nanoceria. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	56
228	Hierarchical assembly of inorganic nanostructure building blocks to octahedral superstructures—a true template-free self-assembly. <i>Nanotechnology</i> , 2007, 18, 075303.	1.3	43
229	Surface-Derivatized Nanoceria with Human Carbonic Anhydrase II Inhibitors and Fluorophores: A Potential Drug Delivery Device. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8437-8442.	1.5	65
230	Anomalous Quasihydrostaticity and Enhanced Structural Stability of 3 nm Nanoceria. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11756-11759.	1.5	25
231	Nanoscale Additives Tailor Energetic Materials. <i>Nano Letters</i> , 2007, 7, 2157-2161.	4.5	124
232	Direct Synthesis of Nanoceria in Aqueous Polyhydroxyl Solutions. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17232-17240.	1.5	103
233	Superoxide dismutase mimetic properties exhibited by vacancy engineered ceria nanoparticles. <i>Chemical Communications</i> , 2007, , 1056.	2.2	1,009
234	Electron paramagnetic study on radical scavenging properties of ceria nanoparticles. <i>Chemical Physics Letters</i> , 2007, 442, 405-408.	1.2	84

#	ARTICLE	IF	CITATIONS
235	Protein adsorption and cellular uptake of cerium oxide nanoparticles as a function of zeta potential. <i>Biomaterials</i> , 2007, 28, 4600-4607.	5.7	876
236	Auto-catalytic ceria nanoparticles offer neuroprotection to adult rat spinal cord neurons. <i>Biomaterials</i> , 2007, 28, 1918-1925.	5.7	670
237	High-Temperature Oxidation Behavior of Solution Precursor Plasma Sprayed Nanoceria Coating on Martensitic Steels. <i>Journal of the American Ceramic Society</i> , 2007, 90, 870-877.	1.9	41
238	Novel Nanoscale Ceria-Platinum Composite Electrodes for Direct Alcohol Electro-Oxidation. <i>Catalysis Letters</i> , 2007, 119, 319-326.	1.4	30
239	The solution precursor plasma spray processing of nanomaterials. <i>Jom</i> , 2007, 59, 54-59.	0.9	34
240	Room temperature hydrogen response kinetics of nano-micro-integrated doped tin oxide sensor. <i>Sensors and Actuators B: Chemical</i> , 2007, 120, 573-583.	4.0	51
241	Role of trivalent La and Nd dopants in lattice distortion and oxygen vacancy generation in cerium oxide nanoparticles. <i>Applied Physics Letters</i> , 2006, 88, 243110.	1.5	161
242	Synthesis, Microstructural Characterization, and Mechanical Property Evaluation of Vacuum Plasma Sprayed Tantalum Carbide. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1419-1425.	1.9	65
243	Rare earth nanoparticles prevent retinal degeneration induced by intracellular peroxides. <i>Nature Nanotechnology</i> , 2006, 1, 142-150.	15.6	803
244	A parametric study on the synthesis of carbon nanotubes through arc-discharge in water. <i>Nanotechnology</i> , 2006, 17, 1722-1730.	1.3	29
245	Surface design and effects in biological environment. <i>Jom</i> , 2006, 58, 51-51.	0.9	0
246	The potential toxicity of nanomaterials-The role of surfaces. <i>Jom</i> , 2006, 58, 77-82.	0.9	194
247	Electrospinning of hydroxypropyl cellulose fibers and their application in synthesis of nano and submicron tin oxide fibers. <i>Polymer</i> , 2005, 46, 12130-12145.	1.8	77
248	Vacancy Engineered Ceria Nanostructures for Protection from Radiation-Induced Cellular Damage. <i>Nano Letters</i> , 2005, 5, 2573-2577.	4.5	744
249	Solution-Based Chemical Synthesis of Boehmite Nanofibers and Alumina Nanorods. <i>ChemInform</i> , 2005, 36, no.	0.1	1
250	Colloidal stability by surface modification. <i>Jom</i> , 2005, 57, 52-56.	0.9	25
251	Synthesis of nanostructured spherical aluminum oxide powders by plasma engineering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 301-309.	1.1	26
252	Impact of CMP Consumables on Copper Metallization Reliability. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2005, 18, 688-694.	1.4	4

#	ARTICLE	IF	CITATIONS
253	Spontaneous Self-Assembly of Cerium Oxide Nanoparticles to Nanorods through Supraaggregate Formation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6936-6939.	1.2	98
254	Size dependency variation in lattice parameter and valency states in nanocrystalline cerium oxide. <i>Applied Physics Letters</i> , 2005, 87, 133113.	1.5	924
255	Optoelectronically automated system for carbon nanotubes synthesis via arc-discharge in solution. <i>Review of Scientific Instruments</i> , 2005, 76, 033903.	0.6	17
256	Solution-Based Chemical Synthesis of Boehmite Nanofibers and Alumina Nanorods. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3868-3872.	1.2	103
257	High-Resolution and Analytical TEM Investigation of Metastable-Tetragonal Phase Stabilization in Undoped Nanocrystalline Zirconia. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 867-875.	0.9	14
258	A Novel Theoretical Model for Semiconductor Oxide Gas Sensor. <i>Materials Research Society Symposia Proceedings</i> , 2004, 828, 161.	0.1	0
259	Room Temperature Hydrogen Gas Sensitivity of Nanocrystalline-Doped Tin Oxide Sensor Incorporated into MEMS Device. <i>Materials Research Society Symposia Proceedings</i> , 2004, 828, 73.	0.1	0
260	Inhibition of Metastable Alumina Formation on Fe-Cr-Al-Y Alloy Fibers at High Temperature Using Titania Coating. <i>Oxidation of Metals</i> , 2004, 62, 29-44.	1.0	26
261	Kinetics and Growth Mechanism of Electrodeposited Palladium Nanocrystallites. <i>Journal of Physical Chemistry B</i> , 2004, 108, 556-562.	1.2	47
262	Surface engineering via nanotechnology: Clusters to components. <i>Jom</i> , 2004, 56, 34-35.	0.9	85
263	Micromachined nanocrystalline SnO ₂ chemical gas sensors for electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2004, 102, 117-125.	4.0	77
264	In-situ synthesis of palladium nanoparticles-filled carbon nanotubes using arc-discharge in solution. <i>Chemical Physics Letters</i> , 2004, 386, 364-368.	1.2	78
265	Nanocrystalline ceria imparts better high-temperature protection. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 3569-3587.	1.0	46
266	In situ synthesis of carbon nanotubes decorated with palladium nanoparticles using arc-discharge in solution method. <i>Journal of Applied Physics</i> , 2004, 96, 5152-5157.	1.1	52
267	Thermodynamic Tetragonal Phase Stability in Sol-Gel Derived Nanodomains of Pure Zirconia. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3395-3399.	1.2	108
268	Title is missing!. <i>Oxidation of Metals</i> , 2003, 59, 543-557.	1.0	6
269	Sol-Gel Synthesis and Phase Evolution Behavior of Sterically Stabilized Nanocrystalline Zirconia. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 27, 119-136.	1.1	62
270	Net Shape Nanostructured Aluminum Oxide Structures Fabricated by Plasma Spray Forming. <i>Journal of Thermal Spray Technology</i> , 2003, 12, 350-359.	1.6	53

#	ARTICLE	IF	CITATIONS
271	Electroless Copper Coating of Zirconia Utilizing Palladium Catalyst. Journal of the American Ceramic Society, 2003, 86, 279-285.	1.9	9
272	Combined Spectroscopic and Thermodynamic Investigation of Nextel®720 Fiber/Alumina Ceramic Matrix Composite in Air and Water Vapor at 1100°C. Journal of the American Ceramic Society, 2003, 86, 1628-1630.	1.9	35
273	Reduced Activation Energy for Grain Growth in Nanocrystalline Ytria-Stabilized Zirconia. Nano Letters, 2003, 3, 397-401.	4.5	139
274	Physical and optical properties of sol-gel nano-silver doped silica film on glass substrate as a function of heat-treatment temperature. Journal of Applied Physics, 2003, 93, 9553-9561.	1.1	122
275	Surface chemical reactions of aluminosilicate composites at extreme atmospheres using electron spectroscopy for chemical analysis. Journal of Materials Chemistry, 2003, 13, 323-327.	6.7	2
276	High-Resolution Analytical Electron Microscopy Investigation of Metastable Tetragonal Phase Stabilization in Undoped, Sol-Gel Derived Zirconia Nanoceramics. Materials Research Society Symposia Proceedings, 2003, 788, 2111.	0.1	0
277	Palladium nanoparticle arrays using template-assisted electrodeposition. Applied Physics Letters, 2003, 82, 3089-3091.	1.5	27
278	Effect of pH and H ₂ O ₂ on Ta Chemical Mechanical Planarization. Journal of the Electrochemical Society, 2003, 150, C36.	1.3	54
279	Sol Gel Alumina Coating On Fe-Cr-Al-Y Fibre Media for Catalytic Converters. Surface Engineering, 2003, 19, 189-194.	1.1	8
280	CTEM, HRTEM and FE-AEM Investigation of the Metastable Tetragonal Phase Stabilization in Undoped, Sol-Gel Derived, Nanocrystalline Zirconia. Microscopy and Microanalysis, 2003, 9, 410-411.	0.2	2
281	X-ray photoelectron spectroscopic investigation of surface chemistry of ternary As-S-Se chalcogenide glasses. Journal of Applied Physics, 2002, 92, 7102-7108.	1.1	18
282	High Temperature Surface Oxidation of Metallic Fibres for Hot Gas Filtration. Surface Engineering, 2002, 18, 197-201.	1.1	6
283	Effect of Nanocrystallite Morphology on the Metastable Tetragonal Phase Stabilization in Zirconia. Nano Letters, 2002, 2, 989-993.	4.5	141
284	Nanostructured materials and the role of surface engineering. Jom, 2002, 54, 20-21.	0.9	2
285	Nanocrystalline SnO gas sensors in view of surface reactions and modifications. Jom, 2002, 54, 35-38.	0.9	98
286	The spray forming of nanostructured Aluminum Oxide. Jom, 2002, 54, 42-44.	0.9	183
287	Processing and Characterization of Bulk Chalcogenide Glasses Used for Waveguide Applications. Journal of the American Ceramic Society, 2002, 85, 1372-1376.	1.9	6
288	Title is missing!. Journal of Sol-Gel Science and Technology, 2002, 23, 151-164.	1.1	21

#	ARTICLE	IF	CITATIONS
289	Title is missing!. Oxidation of Metals, 2002, 57, 297-322.	1.0	28
290	Synthesis of Nanocrystalline Ceria Particles for High Temperature Oxidation Resistant Coating. Journal of Nanoparticle Research, 2002, 4, 433-438.	0.8	123
291	Title is missing!. Journal of Nanoparticle Research, 2002, 4, 553-559.	0.8	38
292	2. Application of photoelectron spectroscopy in inorganic and organic material systems. Experimental Methods in the Physical Sciences, 2001, 38, 111-190.	0.1	2
293	The domain of functional coatings and beyond. Jom, 2001, 53, 43-43.	0.9	1
294	Transition metal nitride functional coatings. Jom, 2001, 53, 51-54.	0.9	28
295	Title is missing!. Oxidation of Metals, 2001, 56, 583-603.	1.0	43
296	A scanning photoemission microscope (SPEM) to study the interface chemistry of AlTi/C system. Journal of Materials Science Letters, 2000, 19, 123-126.	0.5	7
297	Oxidation and chemical state analysis of polycrystalline magnetron sputtered (Ti,Al)N films at ambient and liquid N2 temperatures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 1571-1578.	0.9	17
298	X-ray photoelectron spectroscopy investigations of the chemistries of soils. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 1079-1085.	0.9	15
299	XPS and Electrochemical Studies on Tungsten-Oxidizer Interaction in Chemical Mechanical Polishing. Materials Research Society Symposia Proceedings, 1999, 566, 89.	0.1	2
300	ESCA studies of the coordination state of aluminium in oxide environments. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 181-186.	1.7	82
301	Nature of the use of adventitious carbon as a binding energy standard. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1239-1246.	0.9	620
302	Engineering Glassy Chalcogenide Materials for Integrated Optics Applications. , 0, , 383-405.		6
303	A nanoparticle-based microsensor for room temperature hydrogen detection. , 0, , .		2