Fanming Meng

List of Publications by Year
in descending order

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54 papers	2,021 citations	279798 23 h-index	233421 45 g-index
54 all docs	54 docs citations	54 times ranked	1658 citing authors

#	Article	IF	Citations
1	Controllable synthesis and optical properties of nano-CeO2 via a facile hydrothermal route. Journal of Alloys and Compounds, 2013, 556, 102-108.	5.5	168
2	Formation of hierarchical Bi2MoO6/In2S3 S-scheme heterojunction with rich oxygen vacancies for boosting photocatalytic CO2 reduction. Chemical Engineering Journal, 2022, 429, 132456.	12.7	155
3	Solvothermal synthesis of hierarchical TiO 2 nanostructures with tunable morphology and enhanced photocatalytic activity. Applied Surface Science, 2016, 360, 298-305.	6.1	148
4	Characterization and optical properties of pole-like nano-CeO2 synthesized by a facile hydrothermal method. Applied Surface Science, 2013, 286, 269-274.	6.1	145
5	Oxygen vacancy and Ce3+ ion dependent magnetism of monocrystal CeO2 nanopoles synthesized by a facile hydrothermal method. Materials Research Bulletin, 2013, 48, 3492-3498.	5.2	145
6	Enhanced photocatalytic activity of hierarchical flower-like CeO 2 /TiO 2 heterostructures. Materials Letters, 2016, 175, 36-39.	2.6	130
7	A mechanism for enhanced hydrophilicity of silver nanoparticles modified TiO2 thin films deposited by RF magnetron sputtering. Applied Surface Science, 2009, 255, 6715-6720.	6.1	121
8	Fabrication and enhanced photocatalytic property of TiO2-ZnO composite photocatalysts. Materials Letters, 2019, 240, 84-87.	2.6	78
9	Controlled hydrothermal synthesis of triangular CeO2 nanosheets and their formation mechanism and optical properties. Journal of Alloys and Compounds, 2016, 689, 606-616.	5.5	71
10	Structural, morphological and optical properties of shuttle-like CeO2 synthesized by a facile hydrothermal method. Journal of Alloys and Compounds, 2017, 722, 489-498.	5.5	67
11	Morphology-Controlled Synthesis of CeO 2 Microstructures and Their Room Temperature Ferromagnetism. Journal of Materials Science and Technology, 2017, 33, 444-451.	10.7	66
12	Hydrothermal synthesis of hexagonal CeO2 nanosheets and their room temperature ferromagnetism. Journal of Alloys and Compounds, 2015, 647, 1013-1021.	5.5	62
13	Photocatalytic activity of TiO2 thin films deposited by RF magnetron sputtering. Vacuum, 2009, 83, 1147-1151.	3.5	58
14	Enhanced photocatalytic activity of silver nanoparticles modified TiO2 thin films prepared by RF magnetron sputtering. Materials Chemistry and Physics, 2009, 118, 349-353.	4.0	52
15	Hydrothermal synthesis and mechanism of triangular prism-like monocrystalline CeO2 nanotubes via a facile template-free hydrothermal route. Ceramics International, 2016, 42, 4700-4708.	4.8	51
16	A mechanism for enhanced photocatalytic activity of nano-size silver particle modified titanium dioxide thin films. Science China Technological Sciences, 2010, 53, 3027-3032.	4.0	40
17	One-step hydrothermal synthesis of mesoporous Ce-doped anatase TiO2 nanoparticles with enhanced photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2016, 27, 11866-11872.	2.2	36
18	Morphology-selective synthesis method of gear-like CeO2 microstructures and their optical properties. Materials Letters, 2014, 130, 202-205.	2.6	34

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19	Enhanced charge collection and photocatalysis performance of CdS and PbS nanoclusters co-sensitized TiO2 porous film. Journal of Alloys and Compounds, 2015, 649, 190-195.	5.5	34
20	Thermo-induced hydrophilicity of nano-TiO2 thin films prepared by RF magnetron sputtering. Journal of Alloys and Compounds, 2009, 485, 848-852.	5.5	32
21	Template-free controlled hydrothermal synthesis for monodisperse flowerlike porous CeO2 microspheres and their superior catalytic reduction of NO with NH3. Journal of Alloys and Compounds, 2017, 690, 677-687.	5.5	32
22	Hydrothermal synthesis and room-temperature ferromagnetism of CeO2 nanocolumns. Materials Letters, 2013, 99, 5-7.	2.6	28
23	Hydrothermal synthesis of monocrystalline CeO2 nanopoles and their room temperature ferromagnetism. Materials Letters, 2013, 100, 86-88.	2.6	27
24	Controlled synthesis and optical properties of CeO2 nanoparticles by a N2H4[middle dot]H2O-assisted hydrothermal method. Micro and Nano Letters, 2012, 7, 624.	1.3	22
25	Morphology-selective synthesis method of nanopolyhedra and square-like CeO2 nanoparticles. Materials Letters, 2012, 73, 154-156.	2.6	22
26	Facile hydrothermal synthesis of CeO 2 nano-octahedrons and their magnetic properties. Materials Letters, 2014, 133, 216-219.	2.6	20
27	Growth mechanism and photocatalytic activity of chrysanthemum-like anatase TiO2 nanostructures. Ceramics International, 2016, 42, 6282-6287.	4.8	20
28	Characterization and photocatalytic activity of TiO2 thin films prepared by RF magnetron sputtering. Vacuum, 2010, 85, 84-88.	3.5	19
29	Controlled synthesis of CeO2 microstructures from 1D rod-like to 3D lotus-like and their morphology-dependent properties. Electronic Materials Letters, 2016, 12, 846-855.	2.2	17
30	Self-assembly synthesis of flower-like CeO2/MoS2 heterojunction with enhancement of visible light photocatalytic activity for methyl orange. Journal of Materials Science: Materials in Electronics, 2020, 31, 6690-6697.	2.2	16
31	Construction of CoS/CeO₂ heterostructure nanocages with enhanced photocatalytic performance under visible light. Journal of the American Ceramic Society, 2020, 103, 6136-6148.	3.8	14
32	Experimental and Theoretical Investigations of the Origin of Magnetism in Undoped CeO₂. Science of Advanced Materials, 2015, 7, 663-669.	0.7	12
33	Photocatalytic and magnetic properties of loosened ceria hollow microspheres synthesized by a single-step hydrothermal method. Journal of Materials Science: Materials in Electronics, 2016, 27, 8433-8439.	2.2	11
34	Template-Free Hydrothermal Synthesis, Mechanism, and Photocatalytic Properties of Coreâ€“Shell CeO2 Nanospheres. Electronic Materials Letters, 2018, 14, 474-487.	2.2	11
35	Structural, morphological and optical characteristics of fusiform Co-doped CeO2 via a facile hydrothermal method. Journal of Materials Science: Materials in Electronics, 2018, 29, 11482-11488.	2.2	9
36	Influence of Annealing and UV Irradiation on Hydrophilicity of Ag- Nanostructured Thin Films. Journal of Nanomaterials, 2012, 2012, 1-7.	2.7	8

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37	TiO2/CeO2 composite catalysts: synthesis, characterization and mechanism analysis. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	7
38	Carbon nanotubes as electronic mediators combined with Bi₂MoO₆ and g-C₃N₄ to form Z-scheme heterojunctions to enhance visible light photocatalysis. Nanotechnology, 2022, 33, 115203.	2.6	6
39	Facile synthesis and enhanced photocatalytic performance of dahlia-like TiO2 structures via an EDA-assisted hydrothermal method. Journal of Materials Science: Materials in Electronics, 2016, 27, 10454-10459.	2.2	5
40	Construction of Cu2+-doped CeO2 nanocrystals hierarchical hollow structure and its enhanced photocatalytic performance. Journal of Materials Science: Materials in Electronics, 2021, 32, 27576-27586.	2.2	5
41	Synthesis and Photocatalytic Activity of TiO_XPowders with Different Oxygen Defects. International Journal of Photoenergy, 2012, 2012, 1-7.	2.5	3
42	Microstructure and optical properties of nano Ag-ITO films. Science China Technological Sciences, 2010, 53, 1266-1270.	4.0	2
43	Effect of edge modification on transport properties of finite-sized, graphene nanoribbon-based molecular devices. RSC Advances, 2014, 4, 52366-52371.	3.6	2
44	Characterization and Optical Properties of Three Dimensional (3D) CeO2 Microstructures Synthesized by a Template-Free Method. Russian Journal of Physical Chemistry A, 2018, 92, 2765-2773.	0.6	2
45	Facile Hydrothermal Synthesis of Anatase TiO2 Hollow Nanospheres with Enhanced Photocatalytic Activity. Russian Journal of Physical Chemistry A, 2018, 92, 1772-1776.	0.6	2
46	Facile hydrothermal method to synthesise hexagonal rotorâ€like cerium carbonate hydroxide and CeO ₂ nanostructures. Micro and Nano Letters, 2013, 8, 19-22.	1.3	1
47	Microstructure and Optical Characteristics of Rod-Like Nanoscale CeO₂ Synthesized by Hydrothermal Method. Journal of Nanoscience and Nanotechnology, 2013, 13, 6653-6659.	0.9	1
48	Excellent nearâ€UV emission and roomâ€temperature ferromagnetism of squareâ€like nanoâ€CeO 2 mingled with Ce(OH) 3 synthesised by a hydrothermal method. Micro and Nano Letters, 2016, 11, 284-286.	1.3	1
49	Morphology control and magnetic properties of cauliflower-like CeO2 synthesized by a facile template-free hydrothermal method. Journal of Materials Science: Materials in Electronics, 2017, 28, 9584-9588.	2.2	1
50	Controlled Hydrothermal Synthesis of CeO2 Nanoparticles, Their Photocatalytic Activity and Room Temperature Ferromagnetism. Russian Journal of Physical Chemistry A, 2019, 93, 135-143.	0.6	1
51	Alcohol-Induced Synthesis of Photocatalytic TiO2 with Controlled Hierarchical Structure. Russian Journal of Physical Chemistry A, 2019, 93, 2842-2851.	0.6	1
52	The inelastic electron tunneling spectroscopy of curved finite-sized graphene nanoribbon based molecular devices. RSC Advances, 2015, 5, 53313-53319.	3.6	0
53	Effect of urea on the morphology and room temperature ferromagnetism of CeO2 microstructures synthesized by hydrothermal method. Journal of Materials Science: Materials in Electronics, 2017, 28, 6169-6175.	2.2	0
54	Hydrothermal Synthesis of Monocrystalline CeO2 Polymeric Nano-Balls and Their Optical Properties. Russian Journal of Physical Chemistry A, 2021, 95, 754-761.	0.6	0