

# 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	Formation of hierarchical Bi <sub>2</sub> MoO <sub>6</sub> /In <sub>2</sub> S <sub>3</sub> S-scheme heterojunction with rich oxygen vacancies for boosting photocatalytic CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2022, 429, 132456.	12.7	155
2	Carbon nanotubes as electronic mediators combined with Bi <sub>2</sub> MoO <sub>6</sub> and g-C <sub>3</sub> N <sub>4</sub> to form Z-scheme heterojunctions to enhance visible light photocatalysis. <i>Nanotechnology</i> , 2022, 33, 115203.	2.6	6
3	Hydrothermal Synthesis of Monocrystalline CeO <sub>2</sub> Polymeric Nano-Balls and Their Optical Properties. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, 754-761.	0.6	0
4	Construction of Cu <sup>2+</sup> -doped CeO <sub>2</sub> nanocrystals hierarchical hollow structure and its enhanced photocatalytic performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27576-27586.	2.2	5
5	Self-assembly synthesis of flower-like CeO <sub>2</sub> /MoS <sub>2</sub> heterojunction with enhancement of visible light photocatalytic activity for methyl orange. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6690-6697.	2.2	16
6	Construction of CoS/CeO <sub>2</sub> heterostructure nanocages with enhanced photocatalytic performance under visible light. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6136-6148.	3.8	14
7	Controlled Hydrothermal Synthesis of CeO <sub>2</sub> Nanoparticles, Their Photocatalytic Activity and Room Temperature Ferromagnetism. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 135-143.	0.6	1
8	Alcohol-Induced Synthesis of Photocatalytic TiO <sub>2</sub> with Controlled Hierarchical Structure. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 2842-2851.	0.6	1
9	Fabrication and enhanced photocatalytic property of TiO <sub>2</sub> -ZnO composite photocatalysts. <i>Materials Letters</i> , 2019, 240, 84-87.	2.6	78
10	Template-Free Hydrothermal Synthesis, Mechanism, and Photocatalytic Properties of Core-Shell CeO <sub>2</sub> Nanospheres. <i>Electronic Materials Letters</i> , 2018, 14, 474-487.	2.2	11
11	Characterization and Optical Properties of Three Dimensional (3D) CeO <sub>2</sub> Microstructures Synthesized by a Template-Free Method. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 2765-2773.	0.6	2
12	Facile Hydrothermal Synthesis of Anatase TiO <sub>2</sub> Hollow Nanospheres with Enhanced Photocatalytic Activity. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 1772-1776.	0.6	2
13	TiO <sub>2</sub> /CeO <sub>2</sub> composite catalysts: synthesis, characterization and mechanism analysis. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	7
14	Structural, morphological and optical characteristics of fusiform Co-doped CeO <sub>2</sub> via a facile hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 11482-11488.	2.2	9
15	Morphology-Controlled Synthesis of CeO <sub>2</sub> Microstructures and Their Room Temperature Ferromagnetism. <i>Journal of Materials Science and Technology</i> , 2017, 33, 444-451.	10.7	66
16	Effect of urea on the morphology and room temperature ferromagnetism of CeO <sub>2</sub> microstructures synthesized by hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6169-6175.	2.2	0
17	Morphology control and magnetic properties of cauliflower-like CeO <sub>2</sub> synthesized by a facile template-free hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9584-9588.	2.2	1
18	Structural, morphological and optical properties of shuttle-like CeO <sub>2</sub> synthesized by a facile hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2017, 722, 489-498.	5.5	67

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19	Template-free controlled hydrothermal synthesis for monodisperse flowerlike porous CeO <sub>2</sub> microspheres and their superior catalytic reduction of NO with NH <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2017, 690, 677-687.	5.5	32
20	Enhanced photocatalytic activity of hierarchical flower-like CeO <sub>2</sub> /TiO <sub>2</sub> heterostructures. <i>Materials Letters</i> , 2016, 175, 36-39.	2.6	130
21	Photocatalytic and magnetic properties of loosened ceria hollow microspheres synthesized by a single-step hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8433-8439.	2.2	11
22	Controlled hydrothermal synthesis of triangular CeO <sub>2</sub> nanosheets and their formation mechanism and optical properties. <i>Journal of Alloys and Compounds</i> , 2016, 689, 606-616.	5.5	71
23	One-step hydrothermal synthesis of mesoporous Ce-doped anatase TiO <sub>2</sub> nanoparticles with enhanced photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11866-11872.	2.2	36
24	Excellent near-UV emission and room-temperature ferromagnetism of square-like nano-CeO <sub>2</sub> mingled with Ce(OH) <sub>3</sub> synthesised by a hydrothermal method. <i>Micro and Nano Letters</i> , 2016, 11, 284-286.	1.3	1
25	Controlled synthesis of CeO <sub>2</sub> microstructures from 1D rod-like to 3D lotus-like and their morphology-dependent properties. <i>Electronic Materials Letters</i> , 2016, 12, 846-855.	2.2	17
26	Facile synthesis and enhanced photocatalytic performance of dahlia-like TiO <sub>2</sub> structures via an EDA-assisted hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10454-10459.	2.2	5
27	Growth mechanism and photocatalytic activity of chrysanthemum-like anatase TiO <sub>2</sub> nanostructures. <i>Ceramics International</i> , 2016, 42, 6282-6287.	4.8	20
28	Hydrothermal synthesis and mechanism of triangular prism-like monocrystalline CeO <sub>2</sub> nanotubes via a facile template-free hydrothermal route. <i>Ceramics International</i> , 2016, 42, 4700-4708.	4.8	51
29	Solvothermal synthesis of hierarchical TiO <sub>2</sub> nanostructures with tunable morphology and enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2016, 360, 298-305.	6.1	148
30	Hydrothermal synthesis of hexagonal CeO <sub>2</sub> nanosheets and their room temperature ferromagnetism. <i>Journal of Alloys and Compounds</i> , 2015, 647, 1013-1021.	5.5	62
31	The inelastic electron tunneling spectroscopy of curved finite-sized graphene nanoribbon based molecular devices. <i>RSC Advances</i> , 2015, 5, 53313-53319.	3.6	0
32	Enhanced charge collection and photocatalysis performance of CdS and PbS nanoclusters co-sensitized TiO <sub>2</sub> porous film. <i>Journal of Alloys and Compounds</i> , 2015, 649, 190-195.	5.5	34
33	Experimental and Theoretical Investigations of the Origin of Magnetism in Undoped CeO <sub>2</sub> . <i>Science of Advanced Materials</i> , 2015, 7, 663-669.	0.7	12
34	Effect of edge modification on transport properties of finite-sized, graphene nanoribbon-based molecular devices. <i>RSC Advances</i> , 2014, 4, 52366-52371.	3.6	2
35	Facile hydrothermal synthesis of CeO <sub>2</sub> nano-octahedrons and their magnetic properties. <i>Materials Letters</i> , 2014, 133, 216-219.	2.6	20
36	Morphology-selective synthesis method of gear-like CeO <sub>2</sub> microstructures and their optical properties. <i>Materials Letters</i> , 2014, 130, 202-205.	2.6	34

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37	Controllable synthesis and optical properties of nano-CeO <sub>2</sub> via a facile hydrothermal route. Journal of Alloys and Compounds, 2013, 556, 102-108.	5.5	168
38	Characterization and optical properties of pole-like nano-CeO <sub>2</sub> synthesized by a facile hydrothermal method. Applied Surface Science, 2013, 286, 269-274.	6.1	145
39	Hydrothermal synthesis of monocrystalline CeO <sub>2</sub> nanopoles and their room temperature ferromagnetism. Materials Letters, 2013, 100, 86-88.	2.6	27
40	Hydrothermal synthesis and room-temperature ferromagnetism of CeO <sub>2</sub> nanocolumns. Materials Letters, 2013, 99, 5-7.	2.6	28
41	Oxygen vacancy and Ce <sup>3+</sup> ion dependent magnetism of monocrystal CeO <sub>2</sub> nanopoles synthesized by a facile hydrothermal method. Materials Research Bulletin, 2013, 48, 3492-3498.	5.2	145
42	Facile hydrothermal method to synthesise hexagonal rod-like cerium carbonate hydroxide and CeO <sub>2</sub> nanostructures. Micro and Nano Letters, 2013, 8, 19-22.	1.3	1
43	Microstructure and Optical Characteristics of Rod-Like Nanoscale CeO <sub>2</sub> Synthesized by Hydrothermal Method. Journal of Nanoscience and Nanotechnology, 2013, 13, 6653-6659.	0.9	1
44	Influence of Annealing and UV Irradiation on Hydrophilicity of Ag- Nanostructured Thin Films. Journal of Nanomaterials, 2012, 2012, 1-7.	2.7	8
45	Synthesis and Photocatalytic Activity of TiO <sub>2</sub> Powders with Different Oxygen Defects. International Journal of Photoenergy, 2012, 2012, 1-7.	2.5	3
46	Controlled synthesis and optical properties of CeO <sub>2</sub> nanoparticles by a N <sub>2</sub> H <sub>4</sub> ·H <sub>2</sub> O-assisted hydrothermal method. Micro and Nano Letters, 2012, 7, 624.	1.3	22
47	Morphology-selective synthesis method of nanopolyhedra and square-like CeO <sub>2</sub> nanoparticles. Materials Letters, 2012, 73, 154-156.	2.6	22
48	Microstructure and optical properties of nano Ag-ITO films. Science China Technological Sciences, 2010, 53, 1266-1270.	4.0	2
49	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
50	Characterization and photocatalytic activity of TiO <sub>2</sub> thin films prepared by RF magnetron sputtering. Vacuum, 2010, 85, 84-88.	3.5	19
51	Enhanced photocatalytic activity of silver nanoparticles modified TiO <sub>2</sub> thin films prepared by RF magnetron sputtering. Materials Chemistry and Physics, 2009, 118, 349-353.	4.0	52
52	A mechanism for enhanced hydrophilicity of silver nanoparticles modified TiO <sub>2</sub> thin films deposited by RF magnetron sputtering. Applied Surface Science, 2009, 255, 6715-6720.	6.1	121
53	Photocatalytic activity of TiO <sub>2</sub> thin films deposited by RF magnetron sputtering. Vacuum, 2009, 83, 1147-1151.	3.5	58
54	Thermo-induced hydrophilicity of nano-TiO <sub>2</sub> thin films prepared by RF magnetron sputtering. Journal of Alloys and Compounds, 2009, 485, 848-852.	5.5	32