

Seungho Cho

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

2,567
citations

26
h-index

49
g-index

76
ext. papers

2,803
ext. citations

7.2
avg, IF

4.97
L-index

#	Paper	IF	Citations
75	Morphology-Controlled Growth of ZnO Nanostructures Using Microwave Irradiation: from Basic to Complex Structures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12769-12776	3.8	301
74	Carbon-doped ZnO nanostructures synthesized using vitamin C for visible light photocatalysis. <i>CrystEngComm</i> , 2010 , 12, 3929	3.3	162
73	High-performance NO ₂ gas sensor based on ZnO nanorod grown by ultrasonic irradiation. <i>Sensors and Actuators B: Chemical</i> , 2009 , 141, 239-243	8.5	160
72	Three-dimensional type II ZnO/ZnSe heterostructures and their visible light photocatalytic activities. <i>Langmuir</i> , 2011 , 27, 10243-50	4	137
71	Precursor effects of citric acid and citrates on ZnO crystal formation. <i>Langmuir</i> , 2009 , 25, 3825-31	4	134
70	Highly Efficient and Stable Cadmium Chalcogenide Quantum Dot/ZnO Nanowires for Photoelectrochemical Hydrogen Generation. <i>Chemistry of Materials</i> , 2013 , 25, 184-189	9.6	96
69	Research Update: Strategies for efficient photoelectrochemical water splitting using metal oxide photoanodes. <i>APL Materials</i> , 2014 , 2, 010703	5.7	87
68	Porous ZnO-ZnSe nanocomposites for visible light photocatalysis. <i>Nanoscale</i> , 2012 , 4, 2066-71	7.7	85
67	Exposed crystal face controlled synthesis of 3D ZnO superstructures. <i>Langmuir</i> , 2010 , 26, 14255-62	4	83
66	Anion-Doped Mixed Metal Oxide Nanostructures Derived from Layered Double Hydroxide as Visible Light Photocatalysts. <i>Advanced Functional Materials</i> , 2013 , 23, 2348-2356	15.6	75
65	Aqueous-solution route to zinc telluride films for application to CO ₂ reduction. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5852-7	16.4	72
64	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. <i>Nature Communications</i> , 2016 , 7, 12373	17.4	67
63	Strongly enhanced dielectric and energy storage properties in lead-free perovskite titanate thin films by alloying. <i>Nano Energy</i> , 2018 , 45, 398-406	17.1	64
62	Highly Fluorescent and Stable Quantum Dot-Polymer-Layered Double Hydroxide Composites. <i>Chemistry of Materials</i> , 2013 , 25, 1071-1077	9.6	62
61	Photoelectrochemical water splitting strongly enhanced in fast-grown ZnO nanotree and nanocluster structures. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10203-10211	13	47
60	Formation of amorphous zinc citrate spheres and their conversion to crystalline ZnO nanostructures. <i>Langmuir</i> , 2011 , 27, 371-8	4	45
59	Large-Scale Fabrication of Sub-20-nm-Diameter ZnO Nanorod Arrays at Room Temperature and Their Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10452-10458	3.8	44

58	Single-Crystalline Thin Films for Studying Intrinsic Properties of BiFeO ₃ BrTiO ₃ Solid Solution Photoelectrodes in Solar Energy Conversion. <i>Chemistry of Materials</i> , 2015 , 27, 6635-6641	9.6	40
57	Simultaneous Synthesis of Al-Doped ZnO Nanoneedles and Zinc Aluminum Hydroxides through Use of a Seed Layer. <i>Crystal Growth and Design</i> , 2008 , 8, 4553-4558	3.5	40
56	Solution-based fabrication of ZnO/ZnSe heterostructure nanowire arrays for solar energy conversion. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17816		36
55	An exceptionally facile method to produce layered double hydroxides on a conducting substrate and their application for solar water splitting without an external bias. <i>Energy and Environmental Science</i> , 2014 , 7, 2301	35.4	33
54	Strategy for synthesizing quantum dot-layered double hydroxide nanocomposites and their enhanced photoluminescence and photostability. <i>Langmuir</i> , 2013 , 29, 441-7	4	33
53	High-performance and stable photoelectrochemical water splitting cell with organic-photoactive-layer-based photoanode. <i>Nature Communications</i> , 2020 , 11, 5509	17.4	33
52	The effects of vitamin C on ZnO crystal formation. <i>CrystEngComm</i> , 2010 , 12, 968-976	3.3	31
51	Photocatalytic synthesis of pure and water-dispersible graphene monosheets. <i>Chemistry - A European Journal</i> , 2012 , 18, 2762-7	4.8	27
50	Lead-free relaxor thin films with huge energy density and low loss for high temperature applications. <i>Nano Energy</i> , 2020 , 71, 104536	17.1	27
49	Self-assembled gold nanoparticle-mixed metal oxide nanocomposites for self-sensitized dye degradation under visible light irradiation. <i>Langmuir</i> , 2012 , 28, 17530-6	4	26
48	Room temperature synthesis and optical properties of small diameter (5 nm) ZnO nanorod arrays. <i>Nanoscale</i> , 2010 , 2, 2199-202	7.7	26
47	N-Doped ZnS Nanoparticles Prepared through an Inorganic/Organic Hybrid Complex ZnS[(piperazine) _{0.5}]. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20445-20451	3.8	26
46	Fabrication of ZnO nanoneedle arrays by direct microwave irradiation. <i>Materials Letters</i> , 2009 , 63, 739-743	3.1	25
45	Aqueous-Solution Route to Zinc Telluride Films for Application to CO ₂ Reduction. <i>Angewandte Chemie</i> , 2014 , 126, 5962-5967	3.6	24
44	Shape-Selective Fabrication of Zinc Phosphate Hexagonal Bipyramids via a Disodium Phosphate-Assisted Sonochemical Route. <i>Crystal Growth and Design</i> , 2009 , 9, 3544-3547	3.5	24
43	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. <i>Chemistry of Materials</i> , 2016 , 28, 3017-3023	9.6	23
42	In Situ Fabrication of Density-Controlled ZnO Nanorod Arrays on a Flexible Substrate Using Inductively Coupled Plasma Etching and Microwave Irradiation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17760-17763	3.8	21
41	Sonochemical Synthesis of Amorphous Zinc Phosphate Nanospheres. <i>Bulletin of the Korean Chemical Society</i> , 2009 , 30, 2280-2282	1.2	21

40	Design of a Vertical Composite Thin Film System with Ultralow Leakage To Yield Large Converse Magnetolectric Effect. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18237-18245	9.5	20
39	Morphology-controlled synthesis of CuO nano- and microparticles using microwave irradiation. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 243-248	2.8	20
38	Solution-Based Epitaxial Growth of ZnO Nanoneedles on Single-Crystalline Zn Plates. <i>Crystal Growth and Design</i> , 2010 , 10, 1289-1295	3.5	20
37	Formation of zinc aluminum mixed metal oxide nanostructures. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8770-8778	5.7	19
36	Synthesis of hierarchical hexagonal zinc oxide/zinc aluminium hydroxide heterostructures through epitaxial growth using microwave irradiation. <i>CrystEngComm</i> , 2009 , 11, 1650	3.3	19
35	Formation and Stepwise Self-Assembly of Cadmium Chalcogenide Nanocrystals to Colloidal Supra-Quantum Dots and the Superlattices. <i>Chemistry of Materials</i> , 2016 , 28, 5329-5335	9.6	16
34	The reason for an upper limit to the height of spinnable carbon nanotube forests. <i>Journal of Materials Science</i> , 2013 , 48, 6897-6904	4.3	16
33	Origin of Improved Photoelectrochemical Water Splitting in Mixed Perovskite Oxides. <i>Advanced Energy Materials</i> , 2018 , 8, 1801972	21.8	15
32	All-Bismuth-Based Oxide Tandem Cell for Solar Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6694-6699	6.1	14
31	Quantum dot-layered double hydroxide composites for near-infrared emitting codes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 450-457	7.1	13
30	Synthesis of density-controlled ZnO nanoneedle arrays on a flexible substrate by addition of Al salts and use of microwave irradiation. <i>Materials Letters</i> , 2009 , 63, 2025-2028	3.3	13
29	Formation of quasi-single crystalline porous ZnO nanostructures with a single large cavity. <i>Nanoscale</i> , 2011 , 3, 3841-8	7.7	12
28	Synthesis of crystalline TiO ₂ nanostructure arrays by direct microwave irradiation on a metal substrate. <i>Journal of Crystal Growth</i> , 2010 , 312, 1785-1788	1.6	11
27	Catalytic materials for efficient electrochemical production of hydrogen peroxide. <i>APL Materials</i> , 2020 , 8, 050701	5.7	10
26	Use of Mesoscopic Host Matrix to Induce Ferrimagnetism in Antiferromagnetic Spinel Oxide. <i>Advanced Functional Materials</i> , 2018 , 28, 1706220	15.6	9
25	Facile and fast synthesis of single-crystalline fractal zinc structures through a solution phase reaction and their conversion to zinc oxide. <i>Langmuir</i> , 2009 , 25, 10223-9	4	9
24	Turning refuse plastic into multi-walled carbon nanotube forest. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 025004	7.1	8
23	Facile fabrication of two-dimensional inorganic nanostructures and their conjugation to nanocrystals. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4497	7.1	7

22	A method for synthesizing ZnO/carbonaceous species nanocomposites, and their conversion to quasi-single crystal mesoporous ZnO nanostructures. <i>RSC Advances</i> , 2012 , 2, 566-572	3.7	7
21	Single crystalline zinc structures synthesized spontaneously in solution. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6982		7
20	Achieving ferromagnetic insulating properties in LaBaMnO thin films through nanoengineering. <i>Nanoscale</i> , 2020 , 12, 9255-9265	7.7	7
19	Control of structural disorder in spinel ceramics derived from layered double hydroxides. <i>Ceramics International</i> , 2020 , 46, 6594-6599	5.1	6
18	A Method for Modifying the Crystalline Nature and Texture of ZnO Nanostructure Surfaces. <i>Crystal Growth and Design</i> , 2011 , 11, 5615-5620	3.5	5
17	Gallium ion-assisted room temperature synthesis of small-diameter ZnO nanorods. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 436-42	9.3	5
16	Heterojunction Area-Controlled Inorganic Nanocrystal Solar Cells Fabricated Using Supra-Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43768-43773	9.5	5
15	Continuous Method for the Fast Screening of Thermodynamic Promoters of Gas Hydrates Using a Quartz Crystal Microbalance. <i>Energy & Fuels</i> , 2012 , 26, 767-772	4.1	4
14	A method for covering a substrate with highly-oriented single crystalline hexagonal zinc structures under ambient pressure and room temperature. <i>Chemical Communications</i> , 2009 , 6053-5	5.8	4
13	Facile conversion of bulk metal surface to metal oxide single-crystalline nanostructures by microwave irradiation: Formation of pure or Cr-doped hematite nanostructure arrays. <i>Thin Solid Films</i> , 2010 , 518, 5110-5114	2.2	4
12	A solution-based route to compositionally complex metal oxide structures using high-entropy layered double hydroxides. <i>Cell Reports Physical Science</i> , 2022 , 3, 100702	6.1	4
11	Selective Synthesis of SiC and SiO _x Nanowires by Direct Microwave Irradiation. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 025001	1.4	4
10	Nanoporous Films and Nanostructure Arrays Created by Selective Dissolution of Water-Soluble Materials. <i>Advanced Science</i> , 2018 , 5, 1800851	13.6	4
9	Light-Induced Cleaning of CdS and ZnS Nanoparticles: Superiority to Annealing as a Postsynthetic Treatment of Functional Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15427-15431	3.8	3
8	A One-Batch Synthetic Protocol To Produce Bimodal Aspect Ratio ZnO Crystallites. <i>Crystal Growth and Design</i> , 2012 , 12, 994-999	3.5	2
7	Selective Synthesis of SiC and SiO _x Nanowires by Direct Microwave Irradiation. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 025001	1.4	2
6	Selective, Stable, Bias-Free, and Efficient Solar Hydrogen Peroxide Production on Inorganic Layered Materials. <i>Advanced Functional Materials</i> , 2011 , 2110412	15.6	2
5	Synthesis of vertically aligned single-crystalline (Fe _x Cr _{1-x}) ₂ O ₃ nanostructure arrays by microwave irradiation and their growth mechanism. <i>CrystEngComm</i> , 2010 , 12, 3235	3.3	1

4	Selective phase transformation of layered double hydroxides into mixed metal oxides for catalytic CO oxidation. <i>Cell Reports Physical Science</i> , 2021 , 2, 100628	6.1	1
3	Size-Dependent Photovoltaic Performance of CdSe Supraquantum Dot/Polymer Hybrid Solar Cells: "Goldilocks Problem" Resolved by Tuning the Band Alignment Using Surface Ligands. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25775-25783	3.8	1
2	Spontaneous stepwise formation of polar-facet-dominant ZnO crystals for enhanced catalytic H ₂ O ₂ generation. <i>Applied Surface Science</i> , 2021 , 561, 150061	6.7	1
1	Homoepitaxial growth of ZnO nanostructures from bulk ZnO. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 135-141	9.3	