

# Qing Yang

## List of Publications by Year in descending order

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81  
papers

3,336  
citations

126907

33  
h-index

149698

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81  
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81  
docs citations

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times ranked

5409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Epitaxial Growth of MoSe <sub>2</sub> /NiSe Vertical Heteronanostructures with Electronic Modulation for Enhanced Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016, 28, 1838-1846.	6.7	310
2	Fabrication of Ultrathin Bi <sub>2</sub> S <sub>3</sub> Nanosheets for High-Performance, Flexible, Visible-NIR Photodetectors. <i>Small</i> , 2015, 11, 2848-2855.	10.0	205
3	Fast colloidal synthesis of scalable Mo-rich hierarchical ultrathin MoSe <sub>2</sub> nanosheets for high-performance hydrogen evolution. <i>Nanoscale</i> , 2014, 6, 11046-11051.	5.6	200
4	Integrated Quasipplane Heteronanostructures of MoSe <sub>2</sub> /Bi <sub>2</sub> Se <sub>3</sub> Hexagonal Nanosheets: Synergetic Electrocatalytic Water Splitting and Enhanced Supercapacitor Performance. <i>Advanced Functional Materials</i> , 2017, 27, 1703864.	14.9	170
5	PVA-Assisted Synthesis and Characterization of CdSe and CdTe Nanowires. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9227-9230.	2.6	165
6	Monodisperse Ternary NiCoP Nanostructures as a Bifunctional Electrocatalyst for Both Hydrogen and Oxygen Evolution Reactions with Excellent Performance. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500454.	3.7	132
7	Synthesis of FeP <sub>2</sub> /C nanohybrids and their performance for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 499-503.	10.3	91
8	Near-Infrared Annihilation of Conductive Filaments in Quasipplane MoSe <sub>2</sub> /Bi <sub>2</sub> Se <sub>3</sub> Nanosheets for Mimicking Heterosynaptic Plasticity. <i>Small</i> , 2019, 15, e1805431.	10.0	85
9	Solution-Solid Mechanism: Superionic Conductors Catalyze Nanowire Growth. <i>Nano Letters</i> , 2013, 13, 3996-4000.	9.1	84
10	Controlled Synthesis of Ultrathin Sb <sub>2</sub> Se <sub>3</sub> Nanowires and Application for Flexible Photodetectors. <i>Advanced Science</i> , 2015, 2, 1500109.	11.2	84
11	3D architecture constructed via the confined growth of MoS <sub>2</sub> nanosheets in nanoporous carbon derived from metal-organic frameworks for efficient hydrogen production. <i>Nanoscale</i> , 2015, 7, 18004-18009.	5.6	82
12	Facile fabrication of nanoporous Au-Pd bimetallic foams with high catalytic activity for 2-nitrophenol reduction and SERS property. <i>Journal of Materials Chemistry</i> , 2011, 21, 11961.	6.7	76
13	One-pot synthesis of carbon-coated Ni <sub>5</sub> P <sub>4</sub> nanoparticles and CoP nanorods for high-rate and high-stability lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23345-23351.	10.3	68
14	Directly bonded hybrid of graphene nanoplatelets and fullerene: facile solid-state mechanochemical synthesis and application as carbon-based electrocatalyst for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4139-4146.	10.3	68
15	Ternary NiCoP nanoparticles assembled on graphene for high-performance lithium-ion batteries and supercapacitors. <i>RSC Advances</i> , 2017, 7, 26120-26124.	3.6	65
16	Ni <sub>12</sub> P <sub>5</sub> nanoparticles decorated on carbon nanotubes with enhanced electrocatalytic and lithium storage properties. <i>Nanoscale</i> , 2015, 7, 19241-19249.	5.6	64
17	From covalent triazine-based frameworks to N-doped porous carbon/reduced graphene oxide nanosheets: efficient electrocatalysts for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23170-23178.	10.3	60
18	Synthesis of nanorod-FeP@C composites with hysteretic lithiation in lithium-ion batteries. <i>Dalton Transactions</i> , 2015, 44, 10297-10303.	3.3	58

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19	Large-scale synthesis of single-crystalline MgO with bone-like nanostructures. <i>Journal of Nanoparticle Research</i> , 2006, 8, 881-888.	1.9	56
20	Flexible Artificial Optoelectronic Synapse based on Lead-Free Metal Halide Nanocrystals for Neuromorphic Computing and Color Recognition. <i>Advanced Science</i> , 2022, 9, .	11.2	56
21	Electrochemical activity of 1T <sup>±</sup> structured rhenium selenide nanosheets <i>via</i> electronic structural modulation from selenium-vacancy generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22526-22533.	10.3	49
22	Ascorbic acid-assisted solvothermal growth of $\beta$ -In <sub>2</sub> Se <sub>3</sub> hierarchical flowerlike architectures. <i>CrystEngComm</i> , 2011, 13, 2792.	2.6	44
23	Organometallically Anisotropic Growth of Ultralong Sb <sub>2</sub> Se <sub>3</sub> Nanowires with Highly Enhanced Photothermal Response. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2819-2825.	8.0	44
24	Fast and low-temperature synthesis of one-dimensional (1D) single-crystalline SbSI microrod for high performance photodetector. <i>RSC Advances</i> , 2015, 5, 21859-21864.	3.6	43
25	Design and construction of ultra-thin MoSe <sub>2</sub> nanosheet-based heterojunction for high-speed and low-noise photodetection. <i>Nano Research</i> , 2016, 9, 2641-2651.	10.4	43
26	Scalable colloidal synthesis of uniform Bi <sub>2</sub> S <sub>3</sub> nanorods as sensitive materials for visible-light photodetectors. <i>CrystEngComm</i> , 2017, 19, 727-733.	2.6	42
27	Solvothermal Synthesis of Metastable $\beta$ -MnS Hollow Spheres and Control of Their Phase. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4124-4128.	2.0	41
28	Cu <sub>2</sub> Se nanooctahedra: controllable synthesis and optoelectronic properties. <i>CrystEngComm</i> , 2015, 17, 1975-1981.	2.6	39
29	Fabrication of oxygen-doped MoSe <sub>2</sub> hierarchical nanosheets for highly sensitive and selective detection of trace trimethylamine at room temperature in air. <i>Nano Research</i> , 2020, 13, 1704-1712.	10.4	39
30	Fabrication of BiTeI submicrometer hollow spheres Electronic supplementary information (ESI) available: XRD pattern and TEM images of Bi <sub>2</sub> Te <sub>3</sub> . See <a href="http://www.rsc.org/suppdata/jm/b2/b200950c/">http://www.rsc.org/suppdata/jm/b2/b200950c/</a> . <i>Journal of Materials Chemistry</i> , 2002, 12, 2426-2429.	6.7	38
31	Near-Infrared-Irradiation-Mediated Synaptic Behavior from Tunable Charge-Trapping Dynamics. <i>Advanced Electronic Materials</i> , 2020, 6, 1900765.	5.1	37
32	Well-Dispersed Water-Soluble Pd Nanocrystals: Facile Reducing Synthesis and Application in Catalyzing Organic Reactions in Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13419-13425.	3.1	35
33	Facile synthesis and characterization of CuInS <sub>2</sub> nanocrystals with different structures and shapes. <i>CrystEngComm</i> , 2013, 15, 7192.	2.6	34
34	Electrochemical Performance of Iron Diphosphide/Carbon Tube Nanohybrids in Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 170, 140-145.	5.2	34
35	CoSe <sub>2</sub> Nanoparticles Dispersed in WSe <sub>2</sub> Nanosheets for Efficient Electrocatalysis and Supercapacitance Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 5796-5807.	5.0	33
36	Rock-Salt MnS <sub>0.5</sub> Se <sub>0.5</sub> Nanocubes Assembled on N-Doped Graphene Forming van der Waals Heterostructured Hybrids as High-Performance Anode for Lithium- and Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22608-22620.	8.0	31

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37	Seed-catalyzed heteroepitaxial growth and nonlinear optical properties of zinc selenide nanowires. <i>Journal of Materials Chemistry</i> , 2012, 22, 10009.	6.7	29
38	A highly active and durable CuPdPt/C electrocatalyst for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15309-15315.	10.3	29
39	â€œMagnus nano-bulletsâ€ as T1/T2 based dual-modal for in vitro and in vivo MRI visualization. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 15, 264-273.	3.3	28
40	Preparation of manganese molybdate rods and hollow olive-like spheres. <i>Journal of Materials Science</i> , 2006, 41, 4737-4743.	3.7	27
41	Phosphine-Free Synthesis and Characterization of Cubic-Phase Cu <sub>2</sub> SnTe <sub>3</sub> Nanocrystals with Optical and Optoelectronic Properties. <i>Chemistry of Materials</i> , 2015, 27, 6181-6184.	6.7	27
42	Kinetic Growth of Ultralong Metastable Zincblende MnSe Nanowires Catalyzed by a Fast Ionic Conductor via a Solutionâ€Solidâ€Solid Mechanism. <i>Nano Letters</i> , 2016, 16, 4008-4013.	9.1	26
43	Antimony sulfide tetragonal prismatic tubular crystals. <i>Journal of Materials Chemistry</i> , 2001, 11, 257-259.	6.7	25
44	The controlled construction of a ternary hybrid of monodisperse Ni <sub>3</sub> S <sub>4</sub> nanorods/graphitic C <sub>3</sub> N <sub>4</sub> nanosheets/nitrogen-doped graphene in van der Waals heterojunctions as a highly efficient electrocatalyst for overall water splitting and a promising anode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3714-3728.	10.3	24
45	Large-scale synthesis of amorphous phosphorus nitride imide nanotubes with high luminescent properties. <i>Journal of Materials Research</i> , 2005, 20, 325-330.	2.6	22
46	Fabrication of van der Waals Heterostructured FePSe <sub>3</sub> /Carbon Hybrid Nanosheets for Sodium Storage with High Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54732-54741.	8.0	22
47	Straight Indium Antimonide Nanowires with Twinning Superlattices via a Solution Route. <i>Nano Letters</i> , 2017, 17, 7183-7190.	9.1	21
48	Feasible synthesis of etched gold nanoplates with catalytic activity and SERS properties. <i>CrystEngComm</i> , 2011, 13, 5488.	2.6	18
49	Selective Synthesis of Magnetic Fe <sub>2</sub> P/C and FeP/C Core/Shell Nanocables. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 102-106.	4.6	17
50	Wet Synthesis and Characterization of MSe (M = Cd, Hg) Nanocrystallites at Room Temperature. <i>Journal of Materials Research</i> , 2002, 17, 1147-1152.	2.6	16
51	Integrin $\alpha$ <sub>v</sub> $\beta$ <sub>3</sub> Receptor Overexpressing on Tumor-Targeted Positive MRI-Guided Chemotherapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 163-176.	8.0	16
52	Airâ€Stabilized Leadâ€Free Hexagonal Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> Nanocrystals for Ultrahighâ€Performance Optical Detection. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	15
53	Effective Synthesis of Pb <sub>5</sub> S <sub>2</sub> I <sub>6</sub> Crystals at Low Temperature for Fabrication of a High Performance Photodetector. <i>Crystal Growth and Design</i> , 2018, 18, 1987-1994.	3.0	14
54	Growth of multi-step shaped CdTe nanowires and a distinct photoelectric response in a single nanowire. <i>CrystEngComm</i> , 2013, 15, 6863.	2.6	13

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55	Unconventionally anisotropic growth of PbSe nanorods: Controllable fabrication under solution-solid-solid regime over Ag <sub>2</sub> Se catalysis for broadband photodetection. <i>Nano Research</i> , 2021, 14, 3386-3394.	10.4	13
56	An insight to catalytic synergic effect of Pd-MoS <sub>2</sub> nanorods for highly efficient hydrogen evolution reaction. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103735.	4.9	13
57	Self-assembly of ZnO nanoplates into microspheres. <i>Journal of Materials Science</i> , 2006, 41, 5784-5787.	3.7	11
58	A novel gene-activated matrix composed of PEI/plasmid-BMP2 complexes and hydroxyapatite/chitosan-microspheres promotes bone regeneration. <i>Nano Research</i> , 2022, 15, 6348-6360.	10.4	11
59	Organometallic Synthesis, Structure Determination, Shape Evolution, and Formation Mechanism of Hexapod-like Ternary PbSexS1â€“x Nanostructures with Tunable Compositions. <i>Langmuir</i> , 2014, 30, 7811-7822.	3.5	10
60	Solution Synthesis of Nonequilibrium Zincblende MnS Nanowires. <i>Inorganic Chemistry</i> , 2017, 56, 7679-7686.	4.0	10
61	Solution-based synthesis of NiSb nanoparticles for electrochemical activity in hydrogen evolution reaction. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 373-378.	1.3	8
62	Nanoscale AgInTe <sub>2</sub> /Si Truncated Quasitrahedrons for Heterostructured Photodetectors. <i>ACS Applied Nano Materials</i> , 2021, 4, 5785-5795.	5.0	8
63	Quasi-Monolayer Ag<sub>2</sub>Se/1T-WSe<sub>2</sub>Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution and Charge Storage. <i>ACS Applied Nano Materials</i> , 2022, 5, 6410-6421.	5.0	8
64	Low-temperature liquid reflux synthesis of core@shell structured Ni@Fe-doped NiCo nanoparticles decorated on carbon nanotubes as a bifunctional electrocatalyst for Znâ€“air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13088-13096.	10.3	7
65	Synthesis and Characterization of Ag@C Coreâ€“Shell Structures. <i>Nano LIFE</i> , 2014, 04, 1441008.	0.9	6
66	Biomolecule-Assisted Synthetic Route to Nanostructured Crystals: Synthesis of CdS Hierarchical Dendrites. <i>Journal of Electronic Materials</i> , 2007, 36, 1567-1573.	2.2	5
67	The synthesis and characterization of Pb <sub>5</sub> S <sub>2</sub> I <sub>6</sub> whiskers and tubules. <i>Inorganic Chemistry Communication</i> , 2003, 6, 670-674.	3.9	4
68	Simple Synthesis of Single-crystalline Nanoplates of Magnesium Oxide. <i>Chinese Journal of Chemical Physics</i> , 2006, 19, 438-442.	1.3	4
69	An innovative approach towards the simultaneous enhancement of the oxygen reduction and evolution reactions using a redox mediator in polymer based Liâ€“O<sub>2</sub> batteries. <i>Dalton Transactions</i> , 2021, 50, 16386-16394.	3.3	4
70	Enhanced solar-driven hydrogen evolution over ultrathin g-C <sub>3</sub> N <sub>4</sub> /ReSe <sub>2</sub> heterojunction-like nanosheets with surface selenium vacancies. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165786.	5.5	4
71	Lowâ€“Temperature Growth of Highâ€“Quality Ag<sub>2</sub>HgS<sub>2</sub> Crystals for Setup of Weakâ€“Light UVâ€“Visibleâ€“NIR Photodetectors. <i>Advanced Optical Materials</i> , 2021, 9, 2002080.	7.3	3
72	The effect of morphology on electrochemical hydrogen evolution reaction of ReSe<sub>2</sub> nano-structures. <i>New Journal of Chemistry</i> , 2022, 46, 14894-14902.	2.8	3

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73	Ammonia-Assisted Fabrication of Flowery Nanostructures of Metallic Nickel Assembled from Hexagonal Platelets. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 677-682.	2.0	2
74	Photodetectors: Fabrication of Ultrathin Bi <sub>2</sub> S <sub>3</sub> Nanosheets for High-Performance, Flexible, Visible-NIR Photodetectors ( <i>Small</i> 24/2015). <i>Small</i> , 2015, 11, 2847-2847.	10.0	2
75	Self-assembly growth of alloyed NiPt nanocrystals with holothuria-like shape for oxygen evolution reaction with enhanced catalytic activity. <i>APL Materials</i> , 2016, 4, .	5.1	2
76	Ultrasonic-Assisted Synthesis of Monodisperse Ag Nanoparticles and Their Applications in Surface Enhanced Raman Scattering and Fluorescence Enhancement. <i>Chinese Journal of Chemical Physics</i> , 2012, 25, 501-506.	1.3	1
77	Controllable Shape Evolution of Cu <sub>2</sub> O Flowers and Their Morphologies-Dependent Selective CO Oxidation. <i>Nano LIFE</i> , 2014, 04, 1441004.	0.9	1
78	In Situ Construction of Small Pt NPs Embedded in 3D Spherical Porous Carbon as an Electrocatalyst for Liquid Fuel Oxidation with High Performance. <i>ACS Omega</i> , 2018, 3, 17668-17675.	3.5	1
79	Photonic Synapses: Near-Infrared Annihilation of Conductive Filaments in Quasiplane MoSe <sub>2</sub> /Bi <sub>2</sub> Se <sub>3</sub> Nanosheets for Mimicking Heterosynaptic Plasticity ( <i>Small</i> 7/2019). <i>Small</i> , 2019, 15, 1970039.	10.0	1
80	Evolution Reactions: Monodisperse Ternary NiCoP Nanostructures as a Bifunctional Electrocatalyst for Both Hydrogen and Oxygen Evolution Reactions with Excellent Performance ( <i>Adv. Mater.</i> ) Tj'ETQq0 0 0 rgBT /Ozrlock 100Tf 50 457		
81	Controlled Synthesis of NiCoP/g-C <sub>3</sub> N <sub>4</sub> Heterostructured Hybrids for Enhanced Visible-Light-Driven Hydrogen Evolution. <i>ChemistrySelect</i> , 2021, 6, 5967-5974.	1.5	0