

Cailei Yuan

List of Publications by Year in descending order

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113
papers

2,327
citations

201385

27
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276539

41
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all docs

113
docs citations

113
times ranked

2747
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Enhancement for Hydrogen Evolution Reaction on Ferromagnetic MoS ₂ Catalyst. <i>Nano Letters</i> , 2020, 20, 2923-2930.	4.5	130
2	Enhanced Gas-Sensing Properties of the Hierarchical TiO ₂ Hollow Microspheres with Exposed High-Energy {001} Crystal Facets. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24902-24908.	4.0	99
3	MoS ₂ Moiré Superlattice for Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , 2019, 4, 2830-2835.	8.8	98
4	In situ growth of Co ₃ O ₄ @NiMoO ₄ composite arrays on alumina substrate with improved triethylamine sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127154.	4.0	74
5	High selectivity of sulfur-doped SnO ₂ in NO ₂ detection at lower operating temperatures. <i>Nanoscale</i> , 2018, 10, 20761-20771.	2.8	68
6	2D ultra-thin WO ₃ nanosheets with dominant {002} crystal facets for high-performance xylene sensing and methyl orange photocatalytic degradation. <i>Journal of Alloys and Compounds</i> , 2019, 783, 848-854.	2.8	64
7	Single-crystalline porous nanosheets assembled hierarchical Co ₃ O ₄ microspheres for enhanced gas-sensing properties to trace xylene. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 68-77.	4.0	60
8	Tunable Surface Selenization on MoO ₃ -Based Carbon Substrate for Notably Enhanced Sodium-Ion Storage Properties. <i>Small</i> , 2020, 16, e2001905.	5.2	60
9	Ultrasensitive flexible near-infrared photodetectors based on Van der Waals Bi ₂ Te ₃ nanoplates. <i>Applied Surface Science</i> , 2019, 484, 542-550.	3.1	50
10	Fabrication of novel flower-like Co ₃ O ₄ structures assembled by single-crystalline porous nanosheets for enhanced xylene sensing properties. <i>Journal of Alloys and Compounds</i> , 2017, 706, 116-125.	2.8	49
11	Porous Co ₃ O ₄ /CoS ₂ nanosheet-assembled hierarchical microspheres as superior electrocatalyst towards oxygen evolution reaction. <i>Electrochimica Acta</i> , 2018, 268, 10-19.	2.6	48
12	Novel nitrogen-doped ordered mesoporous carbon as high-performance anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 791, 874-882.	2.8	47
13	Work function variation of monolayer MoS ₂ by nitrogen-doping. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	45
14	Wafer-Scale Sulfur Vacancy-Rich Monolayer MoS ₂ for Massive Hydrogen Production. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4763-4768.	2.1	45
15	High performance visible photodetectors based on thin two-dimensional Bi ₂ Te ₃ nanoplates. <i>Journal of Alloys and Compounds</i> , 2019, 798, 656-664.	2.8	44
16	Novel electrocatalyst of nanoporous FeP cubes prepared by fast electrodeposition coupling with acid-etching for efficient hydrogen evolution. <i>Electrochimica Acta</i> , 2020, 329, 135185.	2.6	44
17	Field-Free Improvement of Oxygen Evolution Reaction in Magnetic Two-Dimensional Heterostructures. <i>Nano Letters</i> , 2021, 21, 10486-10493.	4.5	43
18	Micro Eddy Current Facilitated by Screwed MoS ₂ Structure for Enhanced Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	43

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19	Pore engineering of Co ₃ O ₄ nanowire arrays by MOF-assisted construction for enhanced acetone sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129095.	4.0	39
20	High-energy {001} crystal facets and surface fluorination engineered gas sensing properties of anatase titania nanocrystals. <i>Applied Surface Science</i> , 2017, 423, 602-610.	3.1	38
21	Controllable preparation of faceted Co ₃ O ₄ nanocrystals@MnO ₂ nanowires shish-kebab structures with enhanced triethylamine sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127358.	4.0	36
22	Influences of carrier gas flow rate on the morphologies of MoS ₂ flakes. <i>Chemical Physics Letters</i> , 2015, 631-632, 30-33.	1.2	32
23	Improved ethanol gas sensing performances of a ZnO/Co ₃ O ₄ composite induced by its flytrap-like structure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29601-29607.	1.3	31
24	Anatase TiO ₂ hierarchical microspheres consisting of truncated nanothorns and their structurally enhanced gas sensing performance. <i>Journal of Alloys and Compounds</i> , 2017, 694, 292-299.	2.8	29
25	WO ₃ nanofibers anchored by porous NiCo ₂ O ₄ nanosheets for xylene detection. <i>Ceramics International</i> , 2018, 44, 21717-21724.	2.3	29
26	A systematic study on the crystal facets-dependent gas sensing properties of anatase TiO ₂ with designed {010}, {101} and {001} facets. <i>Ceramics International</i> , 2019, 45, 6282-6290.	2.3	28
27	Ultra-fast and high flexibility near-infrared photodetectors based on Bi ₂ Se ₃ nanobelts grown via catalyst-free van der Waals epitaxy. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152819.	2.8	28
28	Synthetic strategy and evaluation of hierarchical nanoporous NiO/NiCoP microspheres as efficient electrocatalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 292, 88-97.	2.6	27
29	N heterointerface-determined acetone sensing characteristics of γ -MoO ₃ @NiO core@shell nanobelts. <i>CrytEngComm</i> , 2019, 21, 5834-5844.	1.3	27
30	Design of NiCo ₂ O ₄ porous nanosheets/ γ -MoO ₃ nanorods heterostructures for ppb-level ethanol detection. <i>Powder Technology</i> , 2019, 345, 633-642.	2.1	25
31	Crystal plane dependent electrocatalytic performance of NiS ₂ nanocrystals for hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2020, 381, 63-69.	3.1	25
32	Influences of oxygen vacancies on the enhanced nonlinear optical properties of confined ZnO quantum dots. <i>Journal of Alloys and Compounds</i> , 2018, 739, 345-352.	2.8	24
33	Ferromagnetic behaviors in monolayer MoS ₂ introduced by nitrogen-doping. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	23
34	Horizontal growth of MoS ₂ nanowires by chemical vapour deposition. <i>RSC Advances</i> , 2015, 5, 68283-68286.	1.7	22
35	Encapsulating N-Doped Carbon Nanorod Bundles/MoO ₂ Nanoparticles via Surface Growth of Ultrathin MoS ₂ Nanosheets for Ultrafast and Ultralong Cycling Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6205-6216.	4.0	22
36	Directly anchoring non-noble metal single atoms on 1T-TMDs with tip structure for efficient hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 428, 131210.	6.6	22

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37	One-step electrochemical exfoliation of nanoparticles-assembled NiO nanosheets for non-enzymatic glucose biosensor. <i>Materials Letters</i> , 2018, 213, 174-177.	1.3	20
38	Granular molybdenum dioxide precipitated on N-doped carbon nanorods with multistage architecture for ultralong-life sodium-ion batteries. <i>Electrochimica Acta</i> , 2019, 325, 134903.	2.6	19
39	Strain induced tetragonal SrTiO ₃ nanoparticles at room temperature. <i>Applied Physics Letters</i> , 2012, 101, 071909.	1.5	18
40	Synthesis and gas-sensing properties of ZnO@NiCo ₂ O ₄ core@shell nanofibers. <i>Materials Research Bulletin</i> , 2019, 114, 1-9.	2.7	18
41	Ultra-long high quality catalyst-free WO ₃ nanowires for fabricating high-performance visible photodetectors. <i>Nanotechnology</i> , 2020, 31, 274003.	1.3	18
42	Ultrathin Sb ₂ Se ₃ Nanowires for Polarimetric Imaging Photodetectors with a High Signal/Noise Ratio. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	18
43	Thickness-Dependent Strain Effect on the Deformation of the Graphene-Encapsulated Au Nanoparticles. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	1.5	17
44	Strain-induced matrix-dependent deformation of GaAs nanoparticles. <i>Nanoscale</i> , 2014, 6, 1119-1123.	2.8	17
45	Morphology evolution of MoS ₂ nanorods grown by chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2015, 430, 1-6.	0.7	17
46	Laminated bilayer MoS ₂ with weak interlayer coupling. <i>Nanoscale</i> , 2018, 10, 1145-1152.	2.8	17
47	Elimination of Interlayer Potential Barriers of Chromium Sulfide by Self-Intercalation for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13055-13062.	4.0	17
48	Interface Engineering of Fe ₂ O ₃ @Co ₃ O ₄ Nanocubes for Enhanced Triethylamine Sensing Performance. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8057-8068.	1.8	17
49	Strain-Induced Structural Phase Transition of Si Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16374-16377.	1.5	16
50	Enhanced nonlinear optical properties of alloyed AgCu glassy nanoparticles. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153003.	2.8	16
51	Electrochemically assisted synthesis of three-dimensional FeP nanosheets to achieve high electrocatalytic activity for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24197-24208.	3.8	15
52	Mono-faceted WO ₃ nanorods <i>in situ</i> hybridized in carbon nanosheets for ultra-fast/stable sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23919-23929.	5.2	15
53	Synthesis of nitrogen-doped porous carbon nanofibers as an anode material for high performance sodium-ion batteries. <i>Solid State Ionics</i> , 2019, 337, 170-177.	1.3	14
54	Active {111}-faceted ultra-thin NiO single-crystalline porous nanosheets supported highly dispersed Pt nanoparticles for synergetic enhancement of gas sensing and photocatalytic performance. <i>Applied Surface Science</i> , 2019, 471, 124-133.	3.1	14

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55	Quaternary compounds Ag ₂ XYSe ₄ (X=Ba, Sr; Y=Sn, Ge) as novel thermoelectric materials. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 115302.	1.3	14
56	MoS ₂ Nanoribbons with a Prolonged Photoresponse Lifetime for Enhanced Visible Light Photoelectrocatalytic Hydrogen Evolution. <i>Inorganic Chemistry</i> , 2021, 60, 1991-1997.	1.9	14
57	Enhanced photocatalytic performance of Ag decorated hierarchical micro/nanostructured TiO ₂ microspheres. <i>Journal of Alloys and Compounds</i> , 2015, 652, 386-392.	2.8	13
58	An individual sandwich hybrid nanostructure of cobalt disulfide in-situ grown on N doped carbon layer wrapped on multi-walled carbon nanotubes for high-efficiency lithium sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 560-572.	5.0	13
59	Porous N-doped carbon with confined Fe-doped CoP grown on CNTs for superefficient oxygen evolution electrocatalysis. <i>Chemical Communications</i> , 2022, 58, 1597-1600.	2.2	13
60	Light-assisted room temperature gas sensing performance and mechanism of direct Z-scheme MoS ₂ /SnO ₂ crystal faceted heterojunctions. <i>Journal of Hazardous Materials</i> , 2022, 436, 129246.	6.5	13
61	Highly dispersed Pt nanoparticles on hierarchical titania nanoflowers with {010} facets for gas sensing and photocatalysis. <i>Journal of Materials Science</i> , 2019, 54, 6826-6840.	1.7	12
62	Two-photon and three-photon absorption in ZnO nanocrystals embedded in Al ₂ O ₃ matrix influenced by defect states. <i>Optics Letters</i> , 2019, 44, 179.	1.7	12
63	Strained GaAs nanocrystals for nonvolatile memory applications. <i>RSC Advances</i> , 2014, 4, 19584.	1.7	11
64	Monolayer-by-monolayer stacked pyramid-like MoS ₂ nanodots on monolayered MoS ₂ flakes with enhanced photoluminescence. <i>Nanoscale</i> , 2015, 7, 17468-17472.	2.8	11
65	Strain Engineered Band Structure and Optical Properties of Confined GaAs Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5800-5804.	1.5	11
66	Graphene-templated growth of vertical MnO nanosheets with open macroporous architectures as anode materials for fast lithium storage. <i>Journal of Alloys and Compounds</i> , 2018, 769, 10-17.	2.8	11
67	Crystal facets engineering and rGO hybridizing for synergistic enhancement of photocatalytic activity of nickel disulfide. <i>Journal of Hazardous Materials</i> , 2020, 384, 121402.	6.5	11
68	Revealing the synergistic mechanism of multiply nanostructured V ₂ O ₃ hollow nanospheres integrated with doped N, Ni heteroatoms, in-situ grown carbon nanotubes and coated carbon nanolayers for the enhancement of lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 760-771.	5.0	11
69	Boosting the OER Performance of Nitrogen-Doped Ni Nanoclusters Confined in an Amorphous Carbon Matrix. <i>Inorganic Chemistry</i> , 2022, 61, 2360-2367.	1.9	11
70	Hierarchical Porous and Sandwich-like Sulfur-Doped Carbon Nanosheets as High-Performance Anodes for Sodium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 2126-2135.	1.8	11
71	Morphology engineering of monolayer MoS ₂ by adjusting chemical environment during growth. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 292-296.	1.3	10
72	Strain-induced direct band gap LaAlO ₃ nanocrystals. <i>Materials Letters</i> , 2012, 68, 392-394.	1.3	9

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73	Strain-gradient facilitated formation of confined Ge/GeO ₂ nanoparticles with a cracked shell and enhanced two-photon absorption. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8768-8772.	2.7	9
74	Modulation ferromagnetism in multiferroic BiFeO ₃ nanocrystals via bandgap engineering. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	9
75	Nonvolatile charge memory with optical controllability in two-terminal pristine In ₂ Se ₃ nanosheets. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 075108.	1.3	9
76	Prediction for structure stability and ultrahigh hydrogen evolution performance of monolayer 2H-CrS ₂ . <i>Materials Today Communications</i> , 2020, 25, 101707.	0.9	9
77	Controllable synthesis of one-dimensional NiS ₂ nanotube and nanorod arrays on nickel foams for efficient electrocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 50-60.	3.8	9
78	Active Site Engineering in CoP@NC/Graphene Heterostructures Enabling Enhanced Hydrogen Evolution. <i>Inorganic Chemistry</i> , 2021, 60, 16761-16768.	1.9	9
79	Enhanced Gas Sensing Performance of rGO Wrapped Crystal Facet-Controlled Co ₃ O ₄ Nanocomposite Heterostructures. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4879-4888.	1.5	9
80	Tuning strain and photoluminescence of confined Au nanoparticles by hydrogen passivation. <i>RSC Advances</i> , 2017, 7, 6875-6879.	1.7	8
81	Enhanced photoluminescence of WS ₂ /WO ₃ heterostructural QDs. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155066.	2.8	8
82	Hysteresis Effect in Two-dimensional Bi ₂ Te ₃ Nanoplate Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, .	2.6	8
83	Highly Mesoporous Cobalt-Hybridized 2D Cu ₃ P Nanosheet Arrays as Boosting Janus Electrocatalysts for Water Splitting. <i>Inorganic Chemistry</i> , 2021, 60, 18325-18336.	1.9	8
84	Synthesis, photoluminescence and charge storage characteristics of isolated silver nanocrystals embedded in Al ₂ O ₃ gate dielectric. <i>Thin Solid Films</i> , 2008, 516, 7675-7679.	0.8	7
85	Strain-induced phase-structure of Fe ₂ O ₃ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 742, 7-12.	2.8	7
86	Electrochemical exfoliation of hierarchical Co ₃ O ₄ microflowers and their conversion into CoP as high-efficiency hydrogen evolution electrocatalyst. <i>Electrochimica Acta</i> , 2019, 322, 134768.	2.6	7
87	Light-modulated ferromagnetism of strained NiFe ₂ O ₄ nanocrystals. <i>Ceramics International</i> , 2019, 45, 13319-13323.	2.3	7
88	Formation and strain distribution of Ni/NiO core/shell magnetic nanoparticles fabricated by pulsed laser deposition. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1254-1257.	2.0	6
89	A new approach for fabricating Au-Ag alloy nanoparticles confined in Al ₂ O ₃ matrix. <i>Materials Letters</i> , 2017, 190, 248-251.	1.3	6
90	Dielectric matrix imposed stress-strain effect on photoluminescence of Ge nanocrystals. <i>Solid State Communications</i> , 2009, 149, 598-601.	0.9	5

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91	The role of strain on the magnetic properties of confined Fe ₃ O ₄ nanocrystals in Al ₂ O ₃ matrix. <i>Materials Letters</i> , 2019, 239, 52-55.	1.3	5
92	FKBP8 inhibits virus-induced RLR-VISA signaling. <i>Journal of Medical Virology</i> , 2019, 91, 482-492.	2.5	5
93	Structure Modulation in Confined Nanoparticles: The Role of the Strain Gradient. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21810-21817.	1.5	5
94	Strain-induced fcc Fe nanocrystals confined in Al ₂ O ₃ matrix. <i>Journal of Alloys and Compounds</i> , 2017, 727, 1100-1104.	2.8	4
95	Enhancement of infrared response speed via modulating crystallinity of highly-oriented PbS polycrystalline thin films. <i>Infrared Physics and Technology</i> , 2022, 121, 104033.	1.3	4
96	Matrix-Dependent Strain Distributions of Au and Ag Nanoparticles in a Metal-Oxide-Semiconductor-Based Nonvolatile Memory Device. <i>Nanomaterials and Nanotechnology</i> , 2015, 5, 27.	1.2	3
97	Strain-engineered photoluminescence of confined Ag nanocrystals. <i>Journal of Alloys and Compounds</i> , 2016, 688, 463-467.	2.8	3
98	Morphology evolution of MoS ₂ : From monodisperse nanoparticles to self-assembled nanobelts. <i>Chemical Physics Letters</i> , 2016, 646, 1-5.	1.2	3
99	One-Dimensional Zinc Oxide Decorated Cobalt Oxide Nanospheres for Enhanced Gas-Sensing Properties. <i>Frontiers in Chemistry</i> , 2018, 6, 628.	1.8	3
100	Influence of different exchange-correlation potentials on twisted structures of bilayer X ₂ (X=Mo, Tj)ETQq000rgBT/Overlock 10	1.4	3
101	N-doped Fe nanoparticles confined in carbon matrix for high-performance oxygen evolution reaction. <i>Applied Physics Letters</i> , 2022, 120, 133901.	1.5	3
102	Preparation and photoluminescence properties of Ge nanocrystals embedded in SiO ₂ matrices with Ge-GeO core-shell structure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1403-1405.	1.3	2
103	Prolonging lifetime of photogenerated carriers in WO ₃ nanowires by oxygen vacancies engineering for enhanced photoelectrocatalytic oxygen evolution reaction. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	2
104	Pt capping effects on the perpendicular magnetic properties of Pt/Co ₂ MnSi/MgAl ₂ O ₄ trilayers. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	2
105	Multiple structure integrations of embedded-Co and coated-TiO ₂ nanoparticles in N, Co-codoped carbon nanotubes for high efficiency lithium-sulfur batteries. <i>Applied Surface Science</i> , 2022, 600, 154154.	3.1	2
106	Photoluminescence and charge storage characteristics of silica nanocrystals: The role of stress-induced interface defects. <i>Applied Surface Science</i> , 2010, 256, 3138-3141.	3.1	1
107	Shell Thickness-Dependent Strain Distributions of Confined Au/Ag and Ag/Au Core-Shell Nanoparticles. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-7.	0.4	1
108	Strain distribution of confined Ge/GeO ₂ core/shell nanoparticles engineered by growth environments. <i>Chemical Physics Letters</i> , 2016, 646, 91-94.	1.2	1

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109	General synthesis of mixed-dimensional van der Waals heterostructures with hexagonal symmetry. <i>Nanotechnology</i> , 2021, 32, 505610.	1.3	1
110	Effects of biaxial strain and local constant potential on electronic structure of monolayer SnSe. <i>Physica B: Condensed Matter</i> , 2021, 618, 413177.	1.3	1
111	Antiferromagnetic Phase Induced by Nitrogen Doping in 2D Cr ₂ S ₃ . <i>Materials</i> , 2022, 15, 1716.	1.3	1
112	Ultrafast transient photoinduced absorption in Ge core and Ge/GeO ₂ core/shell nanoparticles: effect of interface passivation. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 527-530.	1.1	0
113	Interfacial Effect on Photo-Modulated Magnetic Properties of Core/Shell-Structured NiFe/NiFe ₂ O ₄ Nanoparticles. <i>Materials</i> , 2022, 15, 1347.	1.3	0