

Yan Yu

List of Publications by Year in Descending Order

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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.

106
papers

2,567
citations

28
h-index

45
g-index

122
ext. papers

3,542
ext. citations

8.1
avg, IF

5.73
L-index

#	Paper	IF	Citations
106	Spatially separated oxygen vacancies and nickel sites for ensemble promotion of selective CO ₂ photoreduction to CO. <i>Cell Reports Physical Science</i> , 2022 , 100724	6.1	1
105	Dual-Band-Tunable White-Light Emission from Bi ³⁺ /Te ⁴⁺ Emitters in Perovskite-Derivative Cs ₂ SnCl ₆ Microcrystals. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	10
104	Extraordinary role of Zn in enhancing thermoelectric performance of Ga-doped n-type PbTe. <i>Energy and Environmental Science</i> , 2022 , 15, 368-375	35.4	12
103	Flowerlike BiOCl nanospheres fabricated by an in situ self-assembly strategy for efficiently enhancing photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 423-430	9.3	9
102	Functionalized UiO-66(Ce) for photocatalytic organic transformation: the role of active sites modulated by ligand functionalization. <i>Catalysis Science and Technology</i> , 2022 , 12, 1812-1823	5.5	3
101	Organic Semiconductor Photocatalysts 2021 , 365-404		
100	Organic Semiconductor Photocatalysts 2021 , 325-364		0
99	Organic Semiconductor Photocatalysts 2021 , 405-446		
98	g-C ₃ N ₄ microtubes@CoNiO ₂ nanosheets p-n heterojunction with a hierarchical hollow structure for efficient photocatalytic CO ₂ reduction. <i>Applied Surface Science</i> , 2021 , 579, 151997	6.7	2
97	Optimizing the Oxygen Vacancies Concentration of Thin NiO Nanosheets for Efficient Selective CO ₂ Photoreduction. <i>Solar Rrl</i> , 2021 , 5, 2100703	7.1	5
96	Efficient Access to 3D Mesoscopic Prisms in Polymeric Soft Materials. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100064	4.8	0
95	Yolk-shell-Structured Covalent Organic Frameworks with Encapsulated Metal-Organic Frameworks for Synergistic Catalysis. <i>Chemistry of Materials</i> , 2021 , 33, 5690-5699	9.6	6
94	Hierarchically porous S-scheme CdS/UiO-66 photocatalyst for efficient 4-nitroaniline reduction. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 78-86	11.3	34
93	Encapsulation of Co single sites in covalent triazine frameworks for photocatalytic production of syngas. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 123-130	11.3	16
92	Research advances in biomass-derived nanostructured carbons and their composite materials for electrochemical energy technologies. <i>Progress in Materials Science</i> , 2021 , 118, 100770	42.2	21
91	Light-Driven Syngas Production over Defective ZnIn ₂ S Nanosheets. <i>Chemistry - A European Journal</i> , 2021 , 27, 3786-3792	4.8	16
90	Two-Dimensional Transition Metal Oxides and Chalcogenides for Advanced Photocatalysis: Progress, Challenges, and Opportunities. <i>Solar Rrl</i> , 2021 , 5, 2000403	7.1	10

89	Correlation between Photocorrosion of ZnO and Lattice Relaxation Induced by Its Surface Vacancies. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3242-3255	3.8	7
88	Branched InO Mesocrystal of Ordered Architecture Derived from the Oriented Alignment of a Metal-Organic Framework for Accelerated Hydrogen Evolution over InO-ZnInS. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9804-9813	9.5	10
87	Customized Cellulose Fiber Paper Enabled by an Growth of Ultralong Hydroxyapatite Nanowires. <i>ACS Nano</i> , 2021 , 15, 5355-5365	16.7	14
86	Highly Dispersive Ni@C and Co@C Nanoparticles Derived from Metal-Organic Monolayers for Enhanced Photocatalytic CO Reduction. <i>Inorganic Chemistry</i> , 2021 , 60, 10738-10748	5.1	8
85	Spatial distribution of ZnIn ₂ S ₄ nanosheets on g-C ₃ N ₄ microtubes promotes photocatalytic CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2021 , 418, 129476	14.7	31
84	Upcycling of heavy metal adsorbents into sulfide semiconductors for photocatalytic CO ₂ reduction. <i>Applied Surface Science</i> , 2021 , 558, 149647	6.7	3
83	Caudad Insertion of Pedicle Screws Facilitates Interbody Distraction During Spondylolisthetic Vertebrae Restoration: A Retrospective Study. <i>Pain and Therapy</i> , 2021 , 10, 1537-1550	3.6	1
82	Thermo-driven photocatalytic CO reduction and H ₂ oxidation over ZnO via regulation of reactant gas adsorption electron transfer behavior. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1538-1552	11.3	5
81	Donor-Acceptor Pairs in Covalent Organic Frameworks Promoting Electron Transfer for Metal-Free Photocatalytic Organic Synthesis. <i>Langmuir</i> , 2021 , 37, 11535-11543	4	7
80	Unsaturated Ni Centers Mediated the Coordination Activation of Benzylamine for Enhancing Photocatalytic Activity over Ultrathin Ni MOF-74 Nanosheets.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61286-61295	9.5	1
79	Room-temperature formaldehyde catalytic decomposition. <i>Environmental Science: Nano</i> , 2020 , 7, 3655-3709	10	20
78	Oxygen vacancies in metal oxides: recent progress towards advanced catalyst design. <i>Science China Materials</i> , 2020 , 63, 2089-2118	7.1	81
77	Distinct fusion intersegmental parameters regarding local sagittal balance provide similar clinical outcomes: a comparative study of minimally invasive versus open transforaminal lumbar interbody fusion. <i>BMC Surgery</i> , 2020 , 20, 97	2.3	0
76	Recycling heavy metals from wastewater for photocatalytic CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2020 , 402, 125922	14.7	19
75	Integrating single Ni sites into biomimetic networks of covalent organic frameworks for selective photoreduction of CO. <i>Chemical Science</i> , 2020 , 11, 6915-6922	9.4	34
74	Selective Photocatalytic Oxidation of Thioanisole on DUT-67(Zr) Mediated by Surface Coordination. <i>Langmuir</i> , 2020 , 36, 2199-2208	4	12
73	One-Pot Fabrication of Pd Nanoparticles@Covalent-Organic-Framework-Derived Hollow Polyamine Spheres as a Synergistic Catalyst for Tandem Catalysis. <i>Chemistry - A European Journal</i> , 2020 , 26, 1864-1870	4.8	14
72	Intervertebral range of motion characteristics of normal cervical spinal segments (C0-T1) during in vivo neck motions. <i>Journal of Biomechanics</i> , 2020 , 98, 109418	2.9	13

71	Nanoporous 2D semiconductors encapsulated by quantum-sized graphitic carbon nitride: tuning directional photoinduced charge transfer via nano-architecture modulation. <i>Catalysis Science and Technology</i> , 2019 , 9, 672-687	5.5	18
70	Constructing surface synergistic effect in Cu-Cu ₂ O hybrids and monolayer H _{1.4} Ti _{1.65} O ₄ ·H ₂ O nanosheets for selective cinnamyl alcohol oxidation to cinnamaldehyde. <i>Journal of Catalysis</i> , 2019 , 370, 461-469	7.3	12
69	Solvent-induced surface disorder and doping-induced lattice distortion in anatase TiO ₂ nanocrystals for enhanced photoreversible color switching. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3863-3873	13	19
68	Preparation of a shell nanostructure for highly selective photocatalytic oxidation of organic compounds by wrapping on NiO nanorods exposed {110} facets with ultrathin g-C ₃ N ₄ nanosheets. <i>Applied Surface Science</i> , 2019 , 484, 424-432	6.7	9
67	A Covalent Organic Framework Bearing Single Ni Sites as a Synergistic Photocatalyst for Selective Photoreduction of CO to CO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7615-7621	16.4	289
66	Well-Defined Cu ₂ O/Cu (BTC) Sponge Architecture as Efficient Phenolics Scavenger: Synchronous Etching and Reduction of MOFs in confined-pH NH ₃ ·H ₂ O. <i>Small</i> , 2019 , 15, e1805478	11	10
65	Three-dimensional zigzag Prussian blue analogue and its derivatives for bisphenol A scavenging: Inhomogeneous spatial distribution of Fe ^{III} in anisotropic etching of PBA. <i>Chemical Engineering Journal</i> , 2019 , 372, 260-268	14.7	14
64	Layered Rare Earth-Organic Framework as Highly Efficient Luminescent Matrix: The Crystal Structure, Optical Spectroscopy, Electronic Transition, and Luminescent Sensing Properties. <i>Crystal Growth and Design</i> , 2019 , 19, 4754-4764	3.5	14
63	Photocatalytic synthesis of N-benzylamine from benzylamine on ultrathin BiOCl nanosheets under visible light. <i>Journal of Catalysis</i> , 2019 , 380, 123-131	7.3	36
62	Thioether-Functionalized 2D Covalent Organic Framework Featuring Specific Affinity to Au for Photocatalytic Hydrogen Production from Seawater. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18574-18581	8.3	44
61	Functionalized cross-linked chitosan with ionic liquid and highly efficient removal of azo dyes from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 1023-1029	7.9	8
60	Efficient adsorption of methylene blue and lead ions in aqueous solutions by 5-sulfosalicylic acid modified lignin. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 50-58	7.9	69
59	Densely quaternized anion exchange membranes synthesized from Ullmann coupling extension of ionic segments for vanadium redox flow batteries. <i>Science China Materials</i> , 2019 , 62, 211-224	7.1	18
58	Well-Defined Metal Nanoparticles@Covalent Organic Framework Yolk-Shell Nanocages by ZIF-8 Template as Catalytic Nanoreactors. <i>Small</i> , 2019 , 15, e1804419	11	28
57	Unique Shape Memory Elastomer Associated with Reversible Sacrificial Hydrogen Bonds: Tough and Flexible When below Its T _g . <i>Advanced Engineering Materials</i> , 2018 , 20, 1800051	3.5	2
56	Mesoporous CaMnO ₃ as an efficient scavenger toward organic pollutants and heavy metals: ion exchange provoking ultrafast Fenton-like reaction based on the synergy of alkaline earth/transition metals. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9528-9538	13	11
55	MoS ₂ Quantum Dots-Modified Covalent Triazine-Based Frameworks for Enhanced Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2018 , 11, 1108-1113	8.3	54
54	Thin CuOx-based nanosheets for efficient phenol removal benefitting from structural memory and ion exchange of layered double oxides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4167-4178	13	27

53	Rapid water disinfection over a Ag/AgBr/covalent triazine-based framework composite under visible light. <i>Dalton Transactions</i> , 2018 , 47, 7077-7082	4.3	17
52	One-pot synthesis of secondary amine via photoalkylation of nitroarenes with benzyl alcohol over Pd/monolayer H1.07Ti1.73O4·H2O nanosheets. <i>Journal of Catalysis</i> , 2018 , 361, 105-115	7.3	28
51	Heterometallic metal-organic framework nanocages of high crystallinity: an elongated channel structure formed in situ through metal-ion (M = W or Mo) doping. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23336-23344	13	20
50	A covalent organic framework bearing thioether pendant arms for selective detection and recovery of Au from ultra-low concentration aqueous solution. <i>Chemical Communications</i> , 2018 , 54, 9977-9980	5.8	74
49	Partially removing long branched alkyl side chains of regioregular conjugated backbone based diketopyrrolopyrrole polymer for improving field-effect mobility. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13325-13330	7.1	8
48	Efficient Visible-Light-Driven Photocatalytic Hydrogen Evolution on Phosphorus-Doped Covalent Triazine-Based Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41415-41421	9.5	54
47	Shape control of core-shell MOF@MOF and derived MOF nanocages via ion modulation in a one-pot strategy. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18234-18241	13	44
46	Using CaF ₂ :Eu ³⁺ powder as a luminescent probe to detect Cr ²⁺ ions: a new application on the environmental conservation of an old optical material. <i>Optical Materials Express</i> , 2018 , 8, 2782	2.6	1
45	Boosting Charge-Transfer Efficiency by Simultaneously Tuning Double Effects of Metal Nanocrystal in Z-Scheme Photocatalytic Redox System. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12291-12306	3.8	22
44	Researches on preparation and properties of sodium polysulphide as gold leaching agent. <i>Hydrometallurgy</i> , 2017 , 171, 77-85	4	11
43	Photochemical synthesis of the Fe ₀ /C ₃ N ₄ /MoS ₂ heterostructure as a highly active and reusable photocatalyst. <i>Applied Surface Science</i> , 2017 , 423, 225-235	6.7	17
42	miR-29b contributes to multiple types of muscle atrophy. <i>Nature Communications</i> , 2017 , 8, 15201	17.4	102
41	Ranges of Cervical Intervertebral Disc Deformation During an In Vivo Dynamic Flexion-Extension of the Neck. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	13
40	Hollow Fe ₂ O ₃ Nanoboxes Derived from Metal-Organic Frameworks and Their Superior Ability for Fast Extraction and Magnetic Separation of Trace Pb ²⁺ . <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1476-1484	8.3	34
39	Flux Exploration, Growth, and Optical Spectroscopic Properties of Large Size LaBSiO ₅ and Eu ³⁺ -Substituted LaBSiO ₅ Crystals. <i>Crystal Growth and Design</i> , 2017 , 17, 6541-6549	3.5	7
38	Effect of Graded Facetomy on Lumbar Biomechanics. <i>Journal of Healthcare Engineering</i> , 2017 , 2017, 7981513	3.7	21
37	Cost-Effective Asymmetric Supercapacitors Based on Nickel Cobalt Oxide Nanoarrays and Biowaste-Derived Porous Carbon Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9903-9913	8.2	23
36	Recycling biowaste shells to produce 0D/2D MnO ₂ nanostructures for efficient trace-level metal extraction: confined growth of nanosheets and good dispersion of quantum dots. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20448-20457	13	7

35	Surfactant-free porous nano-Mn ₃ O ₄ as a recyclable Fenton-like reagent that can rapidly scavenge phenolics without H ₂ O ₂ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15650-15660	13	38
34	Elegant Z-scheme-dictated g-C ₃ N ₄ enwrapped WO ₃ superstructures: a multifarious platform for versatile photoredox catalysis. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15601-15612	13	59
33	Adsorbents based on crown ether functionalized composite mesoporous silica for selective extraction of trace silver. <i>Chemical Engineering Journal</i> , 2017 , 313, 1278-1287	14.7	22
32	Efficient and sustainable metal-free GR/C ₃ N ₄ /CDots ternary heterostructures for versatile visible-light-driven photoredox applications: Toward synergistic interaction of carbon materials. <i>Chemical Engineering Journal</i> , 2017 , 307, 593-603	14.7	42
31	The effects of muscle weakness on degenerative spondylolisthesis: A finite element study. <i>Clinical Biomechanics</i> , 2017 , 41, 34-38	2.2	15
30	Functionalized calcium silicate nanofibers with hierarchical structure derived from oyster shells and their application in heavy metal ions removal. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15564-73	3.6	45
29	Recyclable Nanoscale Zero Valent Iron Doped g-C ₃ N ₄ /MoS ₂ for Efficient Photocatalysis of RhB and Cr(VI) Driven by Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4055-4063	8.3	182
28	Chemically stable and reusable nano zero-valent iron/graphite-like carbon nitride nanohybrid for efficient photocatalytic treatment of Cr(VI) and rhodamine B under visible light. <i>Applied Surface Science</i> , 2016 , 386, 451-459	6.7	33
27	Time-dependent hormesis of chemical mixtures: A case study on sulfa antibiotics and a quorum-sensing inhibitor of <i>Vibrio fischeri</i> . <i>Environmental Toxicology and Pharmacology</i> , 2016 , 41, 45-53	5.8	26
26	Synthesis and Adsorption Properties of Hierarchically Ordered Nanostructures Derived from Porous CaO Network. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33656-33665	9.5	12
25	Preparation of bio-polyols by liquefaction of hardwood residue and their application in the modification of polyurethane foams. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016 , 31, 918-924	1	6
24	Synthesis and characterization of bifunctional mesoporous silica adsorbent for simultaneous removal of lead and nitrate ions. <i>Separation and Purification Technology</i> , 2015 , 151, 225-231	8.3	40
23	Efficient simultaneous removal of Cu(II) and Cr ₂ O ₇ ²⁻ from aqueous solution by a renewable amphoteric functionalized mesoporous silica. <i>Chemical Engineering Journal</i> , 2015 , 281, 491-501	14.7	28
22	Layered perovskite Sm _{1-x} LaxBaFe ₂ O _{5+δ} as cobalt-free cathodes for IT-SOFCs. <i>RSC Advances</i> , 2015 , 5, 57592-57598	3.7	10
21	Simultaneous efficient adsorption of Pb ²⁺ and MnO ₄ ⁻ ions by MCM-41 functionalized with amine and nitrilotriacetic acid anhydride. <i>Applied Surface Science</i> , 2015 , 357, 856-865	6.7	44
20	Analysis of risk factors for adjacent superior vertebral pedicle-induced facet joint violation during the minimally invasive surgery transforaminal lumbar interbody fusion: a retrospective study. <i>European Journal of Medical Research</i> , 2015 , 20, 80	4.8	20
19	A Review of the Static Loads Applying on the Finite Element Models of the Lumbar Spine. <i>Journal of Medical Imaging and Health Informatics</i> , 2015 , 5, 893-897	1.2	2
18	Simultaneous removal of cations and anions from waste water by bifunctional mesoporous silica. <i>Applied Surface Science</i> , 2015 , 351, 155-163	6.7	14

17	Crystal growth, spectroscopic properties and energy levels of Cr ³⁺ :Li ₂ Mg ₂ (WO ₄) ₃ : a candidate for broadband laser application. <i>RSC Advances</i> , 2014 , 4, 37041	3.7	13
16	Equilibrium and Kinetics Studies of Phosphate Removal from Solution onto a Hydrothermally Modified Al-Si-Fe-Ca Composite Adsorbent. <i>Materials Science Forum</i> , 2014 , 787, 128-134	0.4	2
15	Pb(II) removal from aqueous solution by a low-cost adsorbent dry desulfurization slag. <i>Applied Surface Science</i> , 2014 , 314, 129-137	6.7	29
14	Adsorption of copper to different biogenic oyster shell structures. <i>Applied Surface Science</i> , 2014 , 311, 264-272	6.7	61
13	New strategies for the repair of spinal cord injury. <i>Science Bulletin</i> , 2014 , 59, 4041-4049		1
12	Transplantation of bone marrow mesenchymal stem cells pretreated with valproic acid in rats with an acute spinal cord injury. <i>BioScience Trends</i> , 2014 , 8, 111-9	9.9	15
11	The strain at bone-implant interface determines the effect of spinopelvic reconstruction following total sacrectomy: a strain gauge analysis in various spinopelvic constructs. <i>PLoS ONE</i> , 2014 , 9, e85298	3.7	8
10	Crystal growth, spectral properties and crystal field analysis of Cr ³⁺ :MgWO ₄ . <i>CrystEngComm</i> , 2013 , 15, 6083	3.3	22
9	Equilibrium and kinetic studies of phosphate removal from solution onto a hydrothermally modified oyster shell material. <i>PLoS ONE</i> , 2013 , 8, e60243	3.7	23
8	Comparison of four reconstruction methods after total sacrectomy: a finite element study. <i>Clinical Biomechanics</i> , 2012 , 27, 771-6	2.2	23
7	Preparation and properties of TiO ₂ /fumed silica composite photocatalytic materials. <i>Procedia Engineering</i> , 2012 , 27, 448-456		38
6	Structural stability of different reconstruction techniques following total sacrectomy: a biomechanical study. <i>Clinical Biomechanics</i> , 2011 , 26, 977-81	2.2	16
5	Phosphate removal by hydrothermally modified fumed silica and pulverized oyster shell. <i>Journal of Colloid and Interface Science</i> , 2010 , 350, 538-43	9.3	48
4	Digital image measurement of specimen deformation based on CCD cameras and Image J software: an application to human pelvic biomechanics 2007 ,		1
3	Oriented assembly of metal-organic frameworks and deficient TiO ₂ nanowires directed by lattice matching for efficient photoreversible color switching. <i>Science China Materials</i> ,1	7.1	1
2	Controlling metallic Co ⁰ in ZIF-67-derived N-C/Co composite catalysts for efficient photocatalytic CO ₂ reduction. <i>Science China Materials</i> ,1	7.1	5
1	Sponge-Like Nickel Carbonate of High Porosity and Carbonate Vacancy for High-Performance CO ₂ Photoreduction. <i>Advanced Sustainable Systems</i> ,2100494	5.9	0