Yan Yu

List of Publications by Citations

106	2,567	28	45
papers	citations	h-index	g-index
122	3,542	8.1	5.73
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
106	A Covalent Organic Framework Bearing Single Ni Sites as a Synergistic Photocatalyst for Selective Photoreduction of CO to CO. *Journal of the American Chemical Society*, **2019**, 141, 7615-7621	16.4	289
105	Recyclable Nanoscale Zero Valent Iron Doped g-C3N4/MoS2 for Efficient Photocatalysis of RhB and Cr(VI) Driven by Visible Light. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4055-4063	8.3	182
104	miR-29b contributes to multiple types of muscle atrophy. *Nature Communications*, **2017**, 8, 15201	17.4	102
103	Oxygen vacancies in metal oxides: recent progress towards advanced catalyst design. *Science China Materials*, **2020**, 63, 2089-2118	7.1	81
102	A covalent organic framework bearing thioether pendant arms for selective detection and recovery of Au from ultra-low concentration aqueous solution. *Chemical Communications*, **2018**, 54, 9977-9980	5.8	74
101	Efficient adsorption of methylene blue and lead ions in aqueous solutions by 5-sulfosalicylic acid modified lignin. *International Journal of Biological Macromolecules*, **2019**, 123, 50-58	7.9	69
100	Adsorption of copper to different biogenic oyster shell structures. *Applied Surface Science*, **2014**, 311, 264-272	6.7	61
99	Elegant Z-scheme-dictated g-C3N4 enwrapped WO3 superstructures: a multifarious platform for versatile photoredox catalysis. *Journal of Materials Chemistry A*, **2017**, 5, 15601-15612	13	59
98	MoS Quantum Dots-Modified Covalent Triazine-Based Frameworks for Enhanced Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2018**, 11, 1108-1113	8.3	54
97	Efficient Visible-Light-Driven Photocatalytic Hydrogen Evolution on Phosphorus-Doped Covalent Triazine-Based Frameworks. *ACS Applied Materials & Interfaces*, **2018**, 10, 41415-41421	9.5	54
96	Phosphate removal by hydrothermally modified fumed silica and pulverized oyster shell. *Journal of Colloid and Interface Science*, **2010**, 350, 538-43	9.3	48
95	Functionalized calcium silicate nanofibers with hierarchical structure derived from oyster shells and their application in heavy metal ions removal. *Physical Chemistry Chemical Physics*, **2016**, 18, 15564-73	3.6	45
94	Simultaneous efficient adsorption of Pb2+ and MnO4− ions by MCM-41 functionalized with amine and nitrilotriacetic acid anhydride. *Applied Surface Science*, **2015**, 357, 856-865	6.7	44
93	Thioether-Functionalized 2D Covalent Organic Framework Featuring Specific Affinity to Au for Photocatalytic Hydrogen Production from Seawater. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 18574-18581	8.3	44
92	Shape control of core−shell MOF@MOF and derived MOF nanocages via ion modulation in a one-pot strategy. *Journal of Materials Chemistry A*, **2018**, 6, 18234-18241	13	44
91	Efficient and sustainable metal-free GR/C3N4/CDots ternary heterostructrues for versatile visible-light-driven photoredox applications: Toward synergistic interaction of carbon materials. *Chemical Engineering Journal*, **2017**, 307, 593-603	14.7	42
90	Synthesis and characterization of bifunctional mesoporous silica adsorbent for simultaneous removal of lead and nitrate ions. *Separation and Purification Technology*, **2015**, 151, 225-231	8.3	40

89	Surfactant-free porous nano-Mn3O4 as a recyclable Fenton-like reagent that can rapidly scavenge phenolics without H2O2. *Journal of Materials Chemistry A*, **2017**, 5, 15650-15660	13	38
88	Preparation and properties of TiO2/fumed silica composite photocatalytic materials. *Procedia Engineering*, **2012**, 27, 448-456		38
87	Photocatalytic synthesis of N-benzyleneamine from benzylamine on ultrathin BiOCl nanosheets under visible light. *Journal of Catalysis*, **2019**, 380, 123-131	7.3	36
86	Hollow □Fe2O3 Nanoboxes Derived from Metal□Organic Frameworks and Their Superior Ability for Fast Extraction and Magnetic Separation of Trace Pb2+. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1476-1484	8.3	34
85	Integrating single Ni sites into biomimetic networks of covalent organic frameworks for selective photoreduction of CO. *Chemical Science*, **2020**, 11, 6915-6922	9.4	34
84	Hierarchically porous S-scheme CdS/UiO-66 photocatalyst for efficient 4-nitroaniline reduction. *Chinese Journal of Catalysis*, **2021**, 42, 78-86	11.3	34
83	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. *Applied Surface Science*, **2016**, 386, 451-459	6.7	33
82	Spatial distribution of ZnIn2S4 nanosheets on g-C3N4 microtubes promotes photocatalytic CO2 reduction. *Chemical Engineering Journal*, **2021**, 418, 129476	14.7	31
81	Pb(II) removal from aqueous solution by a low-cost adsorbent dry desulfurization slag. *Applied Surface Science*, **2014**, 314, 129-137	6.7	29
80	Efficient simultaneous removal of Cu(II) and Cr2O72□from aqueous solution by a renewable amphoteric functionalized mesoporous silica. *Chemical Engineering Journal*, **2015**, 281, 491-501	14.7	28
79	One-pot synthesis of secondary amine via photoalkylation of nitroarenes with benzyl alcohol over Pd/monolayer H1.07Ti1.73O4□H2O nanosheets. *Journal of Catalysis*, **2018**, 361, 105-115	7.3	28
78	Well-Defined Metal Nanoparticles@Covalent Organic Framework Yolk-Shell Nanocages by ZIF-8 Template as Catalytic Nanoreactors. *Small*, **2019**, 15, e1804419	11	28
77	Thin CuOx-based nanosheets for efficient phenol removal benefitting from structural memory and ion exchange of layered double oxides. *Journal of Materials Chemistry A*, **2018**, 6, 4167-4178	13	27
76	Time-dependent hormesis of chemical mixtures: A case study on sulfa antibiotics and a quorum-sensing inhibitor of Vibrio fischeri. *Environmental Toxicology and Pharmacology*, **2016**, 41, 45-53	5.8	26
75	Cost-Effective Asymmetric Supercapacitors Based on Nickel Cobalt Oxide Nanoarrays and Biowaste-Derived Porous Carbon Electrodes. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9903-9913	8.3	23
74	Comparison of four reconstruction methods after total sacrectomy: a finite element study. *Clinical Biomechanics*, **2012**, 27, 771-6	2.2	23
73	Equilibrium and kinetic studies of phosphate removal from solution onto a hydrothermally modified oyster shell material. *PLoS ONE*, **2013**, 8, e60243	3.7	23
72	Crystal growth, spectral properties and crystal field analysis of Cr3+:MgWO4. *CrystEngComm*, **2013**, 15, 6083	3.3	22

71	Adsorbents based on crown ether functionalized composite mesoporous silica for selective extraction of trace silver. *Chemical Engineering Journal*, **2017**, 313, 1278-1287	14.7	22
70	Boosting Charge-Transfer Efficiency by Simultaneously Tuning Double Effects of Metal Nanocrystal in Z-Scheme Photocatalytic Redox System. *Journal of Physical Chemistry C*, **2018**, 122, 12291-12306	3.8	22
69	Effect of Graded Facetectomy on Lumbar Biomechanics. *Journal of Healthcare Engineering*, **2017**, 2017, 7981513	3.7	21
68	Research advances in biomass-derived nanostructured carbons and their composite materials for electrochemical energy technologies. *Progress in Materials Science*, **2021**, 118, 100770	42.2	21
67	Room-temperature formaldehyde catalytic decomposition. *Environmental Science: Nano*, **2020**, 7, 3655-3709	7.1	20
66	Heterometallic metal–organic framework nanocages of high crystallinity: an elongated channel structure formed in situ through metal-ion (M = W or Mo) doping. *Journal of Materials Chemistry A*, **2018**, 6, 23336-23344	13	20
65	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. *European Journal of Medical Research*, **2015**, 20, 80	4.8	20
64	Solvent-induced surface disorder and doping-induced lattice distortion in anatase TiO2 nanocrystals for enhanced photoreversible color switching. *Journal of Materials Chemistry A*, **2019**, 7, 3863-3873	13	19
63	Recycling heavy metals from wastewater for photocatalytic CO2 reduction. *Chemical Engineering Journal*, **2020**, 402, 125922	14.7	19
62	Nanoporous 2D semiconductors encapsulated by quantum-sized graphitic carbon nitride: tuning directional photoinduced charge transfer via nano-architecture modulation. *Catalysis Science and Technology*, **2019**, 9, 672-687	5.5	18
61	Densely quaternized anion exchange membranes synthesized from Ullmann coupling extension of ionic segments for vanadium redox flow batteries. *Science China Materials*, **2019**, 62, 211-224	7.1	18
60	Photochemical synthesis of the Fe0/C3N4/MoS2 heterostructure as a highly active and reusable photocatalyst. *Applied Surface Science*, **2017**, 423, 225-235	6.7	17
59	Rapid water disinfection over a Ag/AgBr/covalent triazine-based framework composite under visible light. *Dalton Transactions*, **2018**, 47, 7077-7082	4.3	17
58	Structural stability of different reconstruction techniques following total sacrectomy: a biomechanical study. *Clinical Biomechanics*, **2011**, 26, 977-81	2.2	16
57	Encapsulation of Co single sites in covalent triazine frameworks for photocatalytic production of syngas. *Chinese Journal of Catalysis*, **2021**, 42, 123-130	11.3	16
56	Light-Driven Syngas Production over Defective ZnIn S Nanosheets. *Chemistry - A European Journal*, **2021**, 27, 3786-3792	4.8	16
55	The effects of muscle weakness on degenerative spondylolisthesis: A finite element study. *Clinical Biomechanics*, **2017**, 41, 34-38	2.2	15
54	Transplantation of bone marrow mesenchymal stem cells pretreated with valproic acid in rats with an acute spinal cord injury. *BioScience Trends*, **2014**, 8, 111-9	9.9	15

53	Three-dimensional zigzag Prussian blue analogue and its derivates for bisphenol A scavenging: Inhomogeneous spatial distribution of FeIII in anisotropic etching of PBA. *Chemical Engineering Journal*, **2019**, 372, 260-268	14.7	14
52	Layered Rare Earth□Organic Framework as Highly Efficient Luminescent Matrix: The Crystal Structure, Optical Spectroscopy, Electronic Transition, and Luminescent Sensing Properties. *Crystal Growth and Design*, **2019**, 19, 4754-4764	3.5	14
51	Simultaneous removal of cations and anions from waste water by bifunctional mesoporous silica. *Applied Surface Science*, **2015**, 351, 155-163	6.7	14
50	One-Pot Fabrication of Pd Nanoparticles@Covalent-Organic-Framework-Derived Hollow Polyamine Spheres as a Synergistic Catalyst for Tandem Catalysis. *Chemistry - A European Journal*, **2020**, 26, 1864-1870	4.8	14
49	Customized Cellulose Fiber Paper Enabled by an Growth of Ultralong Hydroxyapatite Nanowires. *ACS Nano*, **2021**, 15, 5355-5365	16.7	14
48	Ranges of Cervical Intervertebral Disc Deformation During an In Vivo Dynamic Flexion-Extension of the Neck. *Journal of Biomechanical Engineering*, **2017**, 139,	2.1	13
47	Crystal growth, spectroscopic properties and energy levels of Cr3+:Li2Mg2(WO4)3: a candidate for broadband laser application. *RSC Advances*, **2014**, 4, 37041	3.7	13
46	Intervertebral range of motion characteristics of normal cervical spinal segments (C0-T1) during in vivo neck motions. *Journal of Biomechanics*, **2020**, 98, 109418	2.9	13
45	Constructing surface synergistic effect in Cu-Cu2O hybrids and monolayer H1.4Ti1.65O4□H2O nanosheets for selective cinnamyl alcohol oxidation to cinnamaldehyde. *Journal of Catalysis*, **2019**, 370, 461-469	7.3	12
44	Selective Photocatalytic Oxidation of Thioanisole on DUT-67(Zr) Mediated by Surface Coordination. *Langmuir*, **2020**, 36, 2199-2208	4	12
43	Extraordinary role of Zn in enhancing thermoelectric performance of Ga-doped n-type PbTe. *Energy and Environmental Science*, **2022**, 15, 368-375	35.4	12
42	Synthesis and Adsorption Properties of Hierarchically Ordered Nanostructures Derived from Porous CaO Network. *ACS Applied Materials & Interfaces*, **2016**, 8, 33656-33665	9.5	12
41	Researches on preparation and properties of sodium polysulphide as gold leaching agent. *Hydrometallurgy*, **2017**, 171, 77-85	4	11
40	Mesoporous Ca□MnO□ 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. *Journal of Materials Chemistry A*, **2018**, 6, 9528-9538	13	11
39	Well-Defined Cu O/Cu (BTC) Sponge Architecture as Efficient Phenolics Scavenger: Synchronous Etching and Reduction of MOFs in confined-pH NH ?H O. *Small*, **2019**, 15, e1805478	11	10
38	Layered perovskite Sm1□LaxBaFe2O5+□as cobalt-free cathodes for IT-SOFCs. *RSC Advances*, **2015**, 5, 57592-57598	3.7	10
37	Dual-Band-Tunable White-Light Emission from Bi3+/Te4+ Emitters in Perovskite-Derivative Cs2SnCl6 Microcrystals.. *Angewandte Chemie - International Edition*, **2022**,	16.4	10
36	Two-Dimensional Transition Metal Oxides and Chalcogenides for Advanced Photocatalysis: Progress, Challenges, and Opportunities. *Solar Rrl*, **2021**, 5, 2000403	7.1	10

35	Branched InO Mesocrystal of Ordered Architecture Derived from the Oriented Alignment of a Metal-Organic Framework for Accelerated Hydrogen Evolution over InO-ZnInS. *ACS Applied Materials & Interfaces*, **2021**, 13, 9804-9813	9.5	10
34	Preparation of a shell nanostructure for highly selective photocatalytic oxidation of organic compounds by wrapping on NiO nanorods exposed {110} facets with ultrathin g-C3N4 nanosheets. *Applied Surface Science*, **2019**, 484, 424-432	6.7	9
33	Flowerlike BiOCl nanospheres fabricated by an in situ self-assembly strategy for efficiently enhancing photocatalysis. *Journal of Colloid and Interface Science*, **2022**, 607, 423-430	9.3	9
32	The strain at bone-implant interface determines the effect of spinopelvic reconstruction following total sacrectomy: a strain gauge analysis in various spinopelvic constructs. *PLoS ONE*, **2014**, 9, e85298	3.7	8
31	Functionalized cross-linked chitosan with ionic liquid and highly efficient removal of azo dyes from aqueous solution. *International Journal of Biological Macromolecules*, **2019**, 126, 1023-1029	7.9	8
30	Partially removing long branched alkyl side chains of regioregular conjugated backbone based diketopyrrolopyrrole polymer for improving field-effect mobility. *Journal of Materials Chemistry C*, **2018**, 6, 13325-13330	7.1	8
29	Highly Dispersive Ni@C and Co@C Nanoparticles Derived from Metal-Organic Monolayers for Enhanced Photocatalytic CO Reduction. *Inorganic Chemistry*, **2021**, 60, 10738-10748	5.1	8
28	Flux Exploration, Growth, and Optical Spectroscopic Properties of Large Size LaBSiO5 and Eu3+-Substituted LaBSiO5 Crystals. *Crystal Growth and Design*, **2017**, 17, 6541-6549	3.5	7
27	Recycling biowaste shells to produce 0D/2D Mn□a nanostructures for efficient trace-level metal extraction: confined growth of nanosheets and good dispersion of quantum dots. *Journal of Materials Chemistry A*, **2017**, 5, 20448-20457	13	7
26	Correlation between Photocorrosion of ZnO and Lattice Relaxation Induced by Its Surface Vacancies. *Journal of Physical Chemistry C*, **2021**, 125, 3242-3255	3.8	7
25	Donor-Acceptor Pairs in Covalent Organic Frameworks Promoting Electron Transfer for Metal-Free Photocatalytic Organic Synthesis. *Langmuir*, **2021**, 37, 11535-11543	4	7
24	Yolk□Shell-Structured Covalent Organic Frameworks with Encapsulated Metal□Organic Frameworks for Synergistic Catalysis. *Chemistry of Materials*, **2021**, 33, 5690-5699	9.6	6
23	Preparation of bio-polyols by liquefaction of hardwood residue and their application in the modification of polyurethane foams. *Journal Wuhan University of Technology, Materials Science Edition*, **2016**, 31, 918-924	1	6
22	Optimizing the Oxygen Vacancies Concentration of Thin NiO Nanosheets for Efficient Selective CO2 Photoreduction. *Solar Rrl*, **2021**, 5, 2100703	7.1	5
21	Controlling metallic Co0 in ZIF-67-derived N-C/Co composite catalysts for efficient photocatalytic CO2 reduction. *Science China Materials*,1	7.1	5
20	Thermo-driven photocatalytic CO reduction and H2 oxidation over ZnO via regulation of reactant gas adsorption electron transfer behavior. *Chinese Journal of Catalysis*, **2021**, 42, 1538-1552	11.3	5
19	Upcycling of heavy metal adsorbents into sulfide semiconductors for photocatalytic CO2 reduction. *Applied Surface Science*, **2021**, 558, 149647	6.7	3
18	Functionalized UiO-66(Ce) for photocatalytic organic transformation: the role of active sites modulated by ligand functionalization. *Catalysis Science and Technology*, **2022**, 12, 1812-1823	5.5	3

17	Unique Shape Memory Elastomer Associated with Reversible Sacrificial Hydrogen Bonds: Tough and Flexible When below Its Tg. *Advanced Engineering Materials*, **2018**, 20, 1800051	3.5	2
16	Equilibrium and Kinetics Studies of Phosphate Removal from Solution onto a Hydrothermally Modified Al-Si-Fe-Ca Composite Adsorbent. *Materials Science Forum*, **2014**, 787, 128-134	0.4	2
15	A Review of the Static Loads Applying on the Finite Element Models of the Lumbar Spine. *Journal of Medical Imaging and Health Informatics*, **2015**, 5, 893-897	1.2	2
14	g-C3N4 microtubes@CoNiO2 nanosheets p□ heterojunction with a hierarchical hollow structure for efficient photocatalytic CO2 reduction. *Applied Surface Science*, **2021**, 579, 151997	6.7	2
13	New strategies for the repair of spinal cord injury. *Science Bulletin*, **2014**, 59, 4041-4049		1
12	Digital image measurement of specimen deformation based on CCD cameras and Image J software: an application to human pelvic biomechanics **2007**,		1
11	Spatially separated oxygen vacancies and nickel sites for ensemble promotion of selective CO2 photoreduction to CO. *Cell Reports Physical Science*, **2022**, 100724	6.1	1
10	Oriented assembly of metal-organic frameworks and deficient TiO2 nanowires directed by lattice matching for efficient photoreversible color switching. *Science China Materials*,1	7.1	1
9	Using CaF2:Eu3+ powder as a luminescent probe to detect Cr2O7 2- ions: a new application on the environmental conservation of an old optical material. *Optical Materials Express*, **2018**, 8, 2782	2.6	1
8	Caudad Insertion of Pedicle Screws Facilitates Interbody Distraction During Spondylolisthetic Vertebrae Restoration: A Retrospective Study. *Pain and Therapy*, **2021**, 10, 1537-1550	3.6	1
7	Unsaturated Ni Centers Mediated the Coordination Activation of Benzylamine for Enhancing Photocatalytic Activity over Ultrathin Ni MOF-74 Nanosheets.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61286-61295	9.5	1
6	Distinct fusion intersegmental parameters regarding local sagittal balance provide similar clinical outcomes: a comparative study of minimally invasive versus open transforaminal lumbar interbody fusion. *BMC Surgery*, **2020**, 20, 97	2.3	0
5	Organic Semiconductor Photocatalysts **2021**, 325-364		0
4	Efficient Access to 3D Mesoscopic Prisms in Polymeric Soft Materials. *Macromolecular Rapid Communications*, **2021**, 42, e2100064	4.8	0
3	Sponge-Like Nickel Carbonate of High Porosity and Carbonate Vacancy for High-Performance CO 2 Photoreduction. *Advanced Sustainable Systems*,2100494	5.9	0
2	Organic Semiconductor Photocatalysts **2021**, 365-404		
1	Organic Semiconductor Photocatalysts **2021**, 405-446		