

# Chechia Hu

## List of Publications by Year in descending order

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81  
papers

3,498  
citations

147726

31  
h-index

143943

57  
g-index

82  
all docs

82  
docs citations

82  
times ranked

3712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafine cobalt nanoparticle-embedded leaf-like hollow N-doped carbon as an enhanced catalyst for activating monopersulfate to degrade phenol. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 929-940.	5.0	24
2	Adsorption kinetics of methyl blue using metal-modified barium lanthanum titanate as an effective absorbent. <i>Materials Chemistry and Physics</i> , 2022, 276, 125363.	2.0	10
3	Broccoli-like CeO <sub>2</sub> with Hierarchical/Porous Structures, and promoted oxygen vacancy as an enhanced catalyst for catalytic diesel soot elimination. <i>Separation and Purification Technology</i> , 2022, 281, 119867.	3.9	15
4	Synergistic effect of KCl mixing and melamine/urea mixture in the synthesis of g-C <sub>3</sub> N <sub>4</sub> for photocatalytic removal of tetracycline. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 107, 118-125.	2.9	18
5	Nanoneedle-Assembled Copper/Cobalt sulfides on nickel foam as an enhanced 3D hierarchical catalyst to activate monopersulfate for Rhodamine b degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 168-181.	5.0	16
6	Synthesis and applications of carbon nitride (CN) family with different carbon to nitrogen ratio. <i>Carbon</i> , 2022, 188, 482-491.	5.4	22
7	Detection of Fe <sup>3+</sup> and Hg <sup>2+</sup> ions through photoluminescence quenching of carbon dots derived from urea and bitter tea oil residue. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 272, 120963.	2.0	7
8	HNb <sub>3</sub> O <sub>8</sub> /g-C <sub>3</sub> N <sub>4</sub> nanosheet composite membranes with two-dimensional heterostructured nanochannels achieve enhanced water permeance and photocatalytic activity. <i>Chemical Engineering Journal</i> , 2022, 442, 136254.	6.6	22
9	Ag-modified TiO <sub>2</sub> /SiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> sphere with core-shell structure for photo-assisted reduction of 4-nitrophenol. <i>Environmental Research</i> , 2022, 214, 113690.	3.7	19
10	Gel-like Ag-Dicyandiamide Metal-Organic Supramolecular Network-Derived g-C <sub>3</sub> N <sub>4</sub> for Photocatalytic Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8360-8369.	3.2	14
11	Copper sulfides based photocatalysts for degradation of environmental pollution hazards: A review on the recent catalyst design concepts and future perspectives. <i>Surfaces and Interfaces</i> , 2022, 33, 102182.	1.5	29
12	Boosting photoassisted activity for catalytic oxidation of benzoic acid and reduction of 4-nitrophenol with Ag-supported Fe <sub>3</sub> O <sub>4</sub> aerogel. <i>Chemical Engineering Journal</i> , 2021, 405, 126641.	6.6	20
13	Cobalt ferrite nanoparticle-loaded nitrogen-doped carbon sponge as a magnetic 3D heterogeneous catalyst for monopersulfate-based oxidation of salicylic acid. <i>Chemosphere</i> , 2021, 267, 128906.	4.2	29
14	Lanthanum nanocluster/ZIF-8 for boosting catalytic CO <sub>2</sub> /glycerol conversion using MgCO <sub>3</sub> as a dehydrating agent. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7048-7058.	5.2	16
15	The roles of metal species supported on Fe <sub>3</sub> O <sub>4</sub> aerogel for photoassisted 4-nitrophenol reduction and benzoic acid oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 3447-3455.	2.1	3
16	Hydroxylation and sodium intercalation on g-C <sub>3</sub> N <sub>4</sub> for photocatalytic removal of gaseous formaldehyde. <i>Carbon</i> , 2021, 175, 467-477.	5.4	68
17	Self-assembly L-cysteine based 2D g-C <sub>3</sub> N <sub>4</sub> nanoflakes for light-dependent degradation of rhodamine B and tetracycline through photocatalysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, , .	2.7	21
18	Production of glycerol carbonate from carboxylation of glycerol with CO <sub>2</sub> using ZIF-67 as a catalyst. <i>Chemical Engineering Science</i> , 2021, 235, 116451.	1.9	34

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19	Influence of Phosphorus Doping on Triazole-Based g-C <sub>3</sub> N <sub>5</sub> Nanosheets for Enhanced Photoelectrochemical and Photocatalytic Performance. ACS Applied Materials & Interfaces, 2021, 13, 24907-24915.	4.0	70
20	Photoluminescence quenching of thermally treated waste-derived carbon dots for selective metal ion sensing. Environmental Research, 2021, 197, 111008.	3.7	24
21	MIL-88B(Fe)-coated photocatalytic membrane reactor with highly stable flux and phenol removal efficiency. Chemical Engineering Journal, 2021, 418, 129469.	6.6	41
22	Hierarchical ZIF-decorated nanoflower-covered 3-dimensional foam for enhanced catalytic reduction of nitrogen-containing contaminants. Journal of Colloid and Interface Science, 2021, 602, 95-104.	5.0	19
23	Degradation of an imidazolium-based ionic liquid in water using monopersulfate catalyzed by Dahlia flower-like cobalt oxide. Separation and Purification Technology, 2021, 274, 118668.	3.9	8
24	Insights into the deposition of nanostructured nickel oxides by amino acid chelated Complexes: Benefits of mixed side chains in the formation of nanostructures for Energy-efficient Electrochromic windows. Applied Surface Science, 2021, 568, 150914.	3.1	3
25	Assessing nickel oxide electrocatalysts incorporating diamines and having improved oxygen evolution activity using <i>in operando</i> UV/visible and X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 23280-23287.	1.3	6
26	Freeze-dried dicyandiamide-derived g-C <sub>3</sub> N <sub>4</sub> as an effective photocatalyst for H <sub>2</sub> generation. Journal of the Taiwan Institute of Chemical Engineers, 2021, 129, 128-134.	2.7	21
27	Structural modification of aminoclay for catalytic applications. Chemical Engineering Communications, 2020, 207, 871-886.	1.5	7
28	Graphene oxide-derived carbon-doped SrTiO <sub>3</sub> for highly efficient photocatalytic degradation of organic pollutants under visible light irradiation. Chemical Engineering Journal, 2020, 383, 123116.	6.6	78
29	Coordination polymer-derived porous Co <sub>3</sub> O <sub>4</sub> nanosheet as an effective catalyst for activating peroxymonosulfate to degrade sulfosalicylic acid. Applied Surface Science, 2020, 532, 147382.	3.1	29
30	Influence of P,S,O-Doping on g-C <sub>3</sub> N <sub>4</sub> for hydrogel formation and photocatalysis: An experimental and theoretical study. Carbon, 2020, 169, 338-348.	5.4	153
31	Palladium nanoparticles supported on nanosheet-like graphitic carbon nitride for catalytic transfer hydrogenation reaction. Catalysis Science and Technology, 2020, 10, 7883-7893.	2.1	12
32	Selective synthesis of ZIFs from zinc and nickel nitrate solution for photocatalytic H <sub>2</sub> O <sub>2</sub> production. Arabian Journal of Chemistry, 2020, 13, 8301-8308.	2.3	17
33	Boosting photocatalytic H <sub>2</sub> O <sub>2</sub> production by coupling of sulfuric acid and 5-sulfosalicylic acid incorporated polyaniline with g-C <sub>3</sub> N <sub>4</sub> . Sustainable Energy and Fuels, 2020, 4, 4186-4195.	2.5	14
34	Influence of Photocatalysis on Blood Cell Attachment over Protein-Immobilized Polystyrene Surfaces Modified with a Poly(styrene)- <i>b</i> -Poly(acrylic acid) Copolymer. Langmuir, 2020, 36, 3268-3275.	1.6	4
35	Novel Architecture Titanium Carbide (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. Nanomaterials, 2020, 10, 602.	1.9	114
36	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO <sub>2</sub> to high-value renewable fuels. Chemical Engineering Journal, 2020, 402, 126184.	6.6	123

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37	Enhanced degradation of 5-sulfosalicylic acid using peroxymonosulfate activated by ordered porous silica-confined Co <sub>3</sub> O <sub>4</sub> prepared via a solvent-free confined space strategy. <i>Separation and Purification Technology</i> , 2020, 249, 116972.	3.9	23
38	Polymeric g-C <sub>3</sub> N <sub>4</sub> Derived from the Mixture of Dicyandiamide and Mushroom Waste for Photocatalytic Degradation of Methyl Blue. <i>Topics in Catalysis</i> , 2020, 63, 1182-1192.	1.3	6
39	Sulfur-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets for photocatalysis: Z-scheme water splitting and decreased biofouling. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 202-212.	5.0	90
40	Mushroom waste-derived g-C <sub>3</sub> N <sub>4</sub> for methyl blue adsorption and cytotoxic test for Chinese hamster ovary cells. <i>Materials Chemistry and Physics</i> , 2020, 244, 122715.	2.0	13
41	De Novo synthesis of platinum-nanoparticle-encapsulated UiO-66-NH <sub>2</sub> for photocatalytic thin film fabrication with enhanced performance of phenol degradation. <i>Journal of Hazardous Materials</i> , 2020, 397, 122431.	6.5	44
42	Development of 3-dimensional Co <sub>3</sub> O <sub>4</sub> catalysts with various morphologies for activation of Oxone to degrade 5-sulfosalicylic acid in water. <i>Science of the Total Environment</i> , 2020, 724, 138032.	3.9	20
43	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H <sub>2</sub> and O <sub>2</sub> . <i>Catalysts</i> , 2020, 10, 442.	1.6	18
44	Development of BiOI as an effective photocatalyst for oxygen evolution reaction under simulated solar irradiation. <i>Catalysis Science and Technology</i> , 2020, 10, 3223-3231.	2.1	22
45	Structural, microstructural, electrical, thermal and non-isothermal degradation kinetic studies on technologically important poly(aniline)/CdO nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 91, 611-623.	1.1	6
46	Synergistic Effect of Hydrochloric Acid and Phytic Acid Doping on Polyaniline-Coupled g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Photocatalytic Cr(VI) Reduction and Dye Degradation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35702-35712.	4.0	89
47	Photocatalytic Dye and Cr(VI) Degradation Using a Metal-Free Polymeric g-C <sub>3</sub> N <sub>4</sub> Synthesized from Solvent-Treated Urea. <i>Polymers</i> , 2019, 11, 182.	2.0	33
48	Heterostructural design of I-deficient BiOI for photocatalytic decoloration and catalytic CO <sub>2</sub> conversion. <i>Catalysis Science and Technology</i> , 2019, 9, 3800-3811.	2.1	21
49	Amine functionalized ZIF-8 as a visible-light-driven photocatalyst for Cr(VI) reduction. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 372-381.	5.0	87
50	Optical, thermal, mechanical properties, and non-isothermal degradation kinetic studies on PVA/CuO nanocomposites. <i>Polymer Composites</i> , 2019, 40, 3737-3748.	2.3	39
51	Phosphorus-doped g-C <sub>3</sub> N <sub>4</sub> integrated photocatalytic membrane reactor for wastewater treatment. <i>Journal of Membrane Science</i> , 2019, 580, 1-11.	4.1	99
52	Microwave plasma torch synthesis of Zn Al oxides as adsorbent and photocatalyst for organic compounds removal. <i>Powder Technology</i> , 2019, 344, 454-462.	2.1	16
53	Decoration of SrTiO <sub>3</sub> nanofibers by BiOI for photocatalytic methyl orange degradation under visible light irradiation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 264-272.	2.7	31
54	Recent Developments in Graphitic Carbon Nitride Based Hydrogels as Photocatalysts. <i>ChemSusChem</i> , 2019, 12, 1794-1806.	3.6	87

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55	Biofouling mechanism of polysaccharide-protein-humic acid mixtures on polyvinylidene fluoride microfiltration membranes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 94, 2-9.	2.7	6
56	Ag@Sr <sub>2</sub> TiO <sub>4</sub> /Bi <sub>5</sub> O <sub>7</sub> I Heterostructured Composite for Solar-Driven Photoelectrochemical Analysis. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q70-Q73.	0.9	2
57	Fabrication of antistatic fibers with core/sheath and segmented-pie configurations. <i>Journal of Industrial Textiles</i> , 2018, 47, 569-586.	1.1	13
58	Yellowish and blue luminescent graphene oxide quantum dots prepared <i>via</i> a microwave-assisted hydrothermal route using H <sub>2</sub> O <sub>2</sub> and KMnO <sub>4</sub> as oxidizing agents. <i>New Journal of Chemistry</i> , 2018, 42, 3999-4007.	1.4	55
59	Phosphorus and sulfur codoped g-C <sub>3</sub> N <sub>4</sub> as an efficient metal-free photocatalyst. <i>Carbon</i> , 2018, 127, 374-383.	5.4	220
60	Ag-Deposited Electrospun SrTiO <sub>3</sub> Nanofiber with Enhanced Photocatalytic Activity for Degradation of Methylene Orange. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 445-450.	0.9	3
61	N-doped NaTaO <sub>3</sub> synthesized from a hydrothermal method for photocatalytic water splitting under visible light irradiation. <i>Journal of Energy Chemistry</i> , 2017, 26, 515-521.	7.1	22
62	Waterborne polyurethane molecular structure designed and its acetic acid and ammonia absorption efficiency. <i>Fibers and Polymers</i> , 2017, 18, 835-841.	1.1	3
63	Influence of solvothermal synthesis on the photocatalytic degradation activity of carbon nitride under visible light irradiation. <i>Chemical Engineering Science</i> , 2017, 167, 1-9.	1.9	35
64	Rapid synthesis of g-C <sub>3</sub> N <sub>4</sub> spheres using microwave-assisted solvothermal method for enhanced photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 348, 8-17.	2.0	64
65	Photoluminescence and Photocatalysis of Gallium Oxynitride Synthesized from Nitridation of Ga <sub>2</sub> O <sub>3</sub> . <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, Q3001-Q3006.	0.9	10
66	Heterojunction of n-type Sr <sub>2</sub> TiO <sub>4</sub> with p-type Bi <sub>5</sub> O <sub>7</sub> I with enhanced photocatalytic activity under irradiation of simulated sunlight. <i>Applied Surface Science</i> , 2017, 426, 536-544.	3.1	34
67	Fabrication and characterization of antistatic fiber with segmented pie structure. <i>Textile Research Journal</i> , 2016, 86, 1828-1836.	1.1	4
68	Semianalytical solution for power-law polymer solution flow in a converging annular spinneret. <i>AIChE Journal</i> , 2015, 61, 3489-3499.	1.8	6
69	Pyrochlore-like K <sub>2</sub> Ta <sub>2</sub> O <sub>6</sub> synthesized from different methods as efficient photocatalysts for water splitting. <i>Catalysis Science and Technology</i> , 2013, 3, 1798.	2.1	22
70	Power-law polymer solution flow in a converging annular spinneret: Analytical approximation and numerical computation. <i>AIChE Journal</i> , 2012, 58, 122-131.	1.8	9
71	Efficient water splitting over Na <sub>1-x</sub> K <sub>x</sub> TaO <sub>3</sub> photocatalysts with cubic perovskite structure. <i>Journal of Materials Chemistry</i> , 2011, 21, 3824.	6.7	69
72	Influence of Indium Doping on the Activity of Gallium Oxynitride for Water Splitting under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2805-2811.	1.5	31

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73	Structural features of p-type semiconducting NiO as a co-catalyst for photocatalytic water splitting. Journal of Catalysis, 2010, 272, 1-8.	3.1	142
74	Gallium Oxynitride Photocatalysts Synthesized from Ga(OH) <sub>3</sub> for Water Splitting under Visible Light Irradiation. Journal of Physical Chemistry C, 2010, 114, 20100-20106.	1.5	62
75	Structure Characterization and Tuning of Perovskite-Like NaTaO <sub>3</sub> for Applications in Photoluminescence and Photocatalysis. Journal of the American Ceramic Society, 2009, 92, 460-466.	1.9	88
76	Electrodeposited p-type Cu <sub>2</sub> O as photocatalyst for H <sub>2</sub> evolution from water reduction in the presence of WO <sub>3</sub> . Solar Energy Materials and Solar Cells, 2008, 92, 1071-1076.	3.0	181
77	Electrodeposited p-type Cu <sub>2</sub> O for H <sub>2</sub> evolution from photoelectrolysis of water under visible light illumination. International Journal of Hydrogen Energy, 2008, 33, 2897-2903.	3.8	203
78	Temperature-Dependent Photoluminescence in NaTaO <sub>3</sub> with Different Crystalline Structures. Electrochemical and Solid-State Letters, 2008, 11, P1.	2.2	35
79	Influence of structural features on the photocatalytic activity of NaTaO <sub>3</sub> powders from different synthesis methods. Applied Catalysis A: General, 2007, 331, 44-50.	2.2	163
80	NaTaO <sub>3</sub> photocatalysts of different crystalline structures for water splitting into H <sub>2</sub> and O <sub>2</sub> . Applied Physics Letters, 2006, 89, 211904.	1.5	131
81	Preparation and characterization of carbon black/polybutylene terephthalate/polyethylene terephthalate antistatic fiber with sheath-core structure. Journal of the Textile Institute, 0, , 1-9.	1.0	9