Jianhua Hou

List of Publications by Year in Descending Order

39 papers	2,316 citations	21 h-index	44 g-index
44 ext. papers	2,910 ext. citations	7.6 avg, IF	5.45 L-index

#	Paper	IF	Citations
39	Switching charge transfer of g-C3N4/BiVO4 heterojunction from type II to Z-scheme via interfacial vacancy engineering for improved photocatalysis. *International Journal of Hydrogen Energy*, **2022**, 47, 8749-8760	6.7	0
38	Oxygen vacancies induced narrow band gap of BiOCl for efficient visible-light catalytic performance from double radicals. *Journal of Materials Science and Technology*, **2022**, 114, 240-248	9.1	6
37	Hydrated lithium ions intercalated VO with dual-ion synergistic insertion mechanism for high-performance aqueous zinc-ion batteries. *Journal of Colloid and Interface Science*, **2022**, 606, 645-653	9.3	4
36	Atomic Fe-N /C in flexible carbon fiber membrane as binder-free air cathode for Zn-air batteries with stable cycling over 1000 hours. *Advanced Materials*, **2021**, e2105410	24	23
35	Fast preparation of oxygen vacancy-rich 2D/2D bismuth oxyhalides-reduced graphene oxide composite with improved visible-light photocatalytic properties by solvent-free grinding. *Journal of Cleaner Production*, **2021**, 328, 129651	10.3	8
34	Chemical precipitation synthesis of Bi0.7Fe0.3OCl nanosheets via Fe (III)-doped BiOCl for highly visible light photocatalytic performance. *Materials Today Communications*, **2021**, 26, 102145	2.5	2
33	Variable dimensional structure and interface design of g-C3N4/BiOI composites with oxygen vacancy for improving visible-light photocatalytic properties. *Journal of Cleaner Production*, **2021**, 287, 125072	10.3	26
32	Effect of interface types on the static and dynamic mechanical properties of 3D braided SiC/SiC composites after oxidation. *Ceramics International*, **2021**, 47, 13301-13311	5.1	2
31	Mechanism analysis of MnFeO/FeS for removal of Cr(VI) from aqueous phase. *Ecotoxicology and Environmental Safety*, **2021**, 217, 112209	7	5
30	Fine-tuning internal electric field of BiOBr for suppressed charge recombination. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104766	6.8	9
29	Efficient purification of toluene gas by anoxic denitrification. *Environmental Science and Pollution Research*, **2021**, 28, 11683-11688	5.1	1
28	Mitigating voltage decay of Li-Rich layer oxide cathode material via an ultrathin □thium ion pump□ heteroepitaxial surface modification. *Journal of Power Sources*, **2021**, 511, 230427	8.9	3
27	Remarkable cycling durability of lithium-sulfur batteries with interconnected mesoporous hollow carbon nanospheres as high sulfur content host. *Chemical Engineering Journal*, **2020**, 401, 126141	14.7	61
26	BiOCl/cattail carbon composites with hierarchical structure for enhanced photocatalytic activity. *Solar Energy*, **2020**, 211, 1263-1269	6.8	8
25	Use of Gemini surfactant as emulsion interface microreactor for the synthesis of nitrogen-doped hollow carbon spheres for high-performance supercapacitors. *Chemical Engineering Journal*, **2020**, 384, 123309	14.7	34
24	Photocatalytic behavior of biochar-modified carbon nitride with enriched visible-light reactivity. *Chemosphere*, **2020**, 239, 124713	8.4	31
23	Narrowing the Band Gap of BiOCl for the Hydroxyl Radical Generation of Photocatalysis under Visible Light. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16569-16576	8.3	40

22	The chemical precipitation synthesis of nanorose-shaped Bi4O5I2 with highly visible light photocatalytic performance. *Materials Letters*, **2019**, 252, 106-109	3.3	10
21	Ultrathin-Layer Structure of BiOI Microspheres Decorated on N-Doped Biochar With Efficient Photocatalytic Activity. *Frontiers in Chemistry*, **2019**, 7, 378	5	15
20	BiOI/nitrogen-doped hierarchical carbon (NHC) composites with tremella-like structure for high photocatalytic performance. *Chemosphere*, **2019**, 229, 426-433	8.4	22
19	Nitrogen-Doped Carbon Nanosheets Decorated With MnO Nanoparticles for Excellent Oxygen Reduction Reaction. *Frontiers in Chemistry*, **2019**, 7, 741	5	5
18	Hierarchical porous biochar-based functional materials derived from biowaste for Pb(II) removal. *Applied Surface Science*, **2019**, 465, 297-302	6.7	25
17	Lantern-like bismuth oxyiodide embedded typha-based carbon via in situ self-template and ion exchange-recrystallization for high-performance photocatalysis. *Dalton Transactions*, **2018**, 47, 6692-6701	4.3	29
16	Formamide-assisted one-pot synthesis of a Bi/Bi2O2CO3 heterojunction photocatalyst with enhanced photocatalytic activity. *Journal of Alloys and Compounds*, **2018**, 769, 301-310	5.7	15
15	Adsorption and reduction of hexavalent chromium on magnetic greigite (FeS)-CTAB: leading role of Fe(ii) and S(-ii).. *RSC Advances*, **2018**, 8, 31568-31574	3.7	6
14	Micro and nano hierachical structures of BiOI/activated carbon for efficient visible-light-photocatalytic reactions. *Scientific Reports*, **2017**, 7, 11665	4.9	42
13	Popcorn-Derived Porous Carbon Flakes with an Ultrahigh Specific Surface Area for Superior Performance Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 30626-30634	9.5	170
12	Tunable porous structure of carbon nanosheets derived from puffed rice for high energy density supercapacitors. *Journal of Power Sources*, **2017**, 371, 148-155	8.9	73
11	Simultaneous reductive and sorptive removal of Cr(VI) by activated carbon supported □FeOOH. *RSC Advances*, **2017**, 7, 34687-34693	3.7	44
10	Template-free synthesis of highly ordered 3D-hollow hierarchical Nb 2 O 5 superstructures as an asymmetric supercapacitor by using inorganic electrolyte. *Electrochimica Acta*, **2016**, 216, 332-338	6.7	40
9	Floating photocatalyst of B-N-TiO2/expanded perlite: a sol-gel synthesis with optimized mesoporous and high photocatalytic activity. *Scientific Reports*, **2016**, 6, 29902	4.9	42
8	A co-sol-emulsion-gel synthesis of tunable and uniform hollow carbon nanospheres with interconnected mesoporous shells. *Nanoscale*, **2016**, 8, 451-7	7.7	70
7	Hierarchical mesoporous NiCo2O4 hollow nanocubes for supercapacitors. *Physical Chemistry Chemical Physics*, **2016**, 18, 6268-74	3.6	43
6	Hierarchical porous nitrogen-doped carbon nanosheets derived from silk for ultrahigh-capacity battery anodes and supercapacitors. *ACS Nano*, **2015**, 9, 2556-64	16.7	1164
5	From rice bran to high energy density supercapacitors: a new route to control porous structure of 3D carbon. *Scientific Reports*, **2014**, 4, 7260	4.9	101

4	Enhanced electrochemical performance of ball milled CoO for supercapacitor applications. *Journal of Materials Chemistry A*, **2014**, 2, 16467-16473	13	94
3	Facile synthesis of novel Nb3O7F nanoflowers, their optical and photocatalytic properties. *CrystEngComm*, **2013**, 15, 8146	3.3	34
2	Accelerating interlayer charge transport of alkali metal-intercalated carbon nitride for enhanced photocatalytic hydrogen evolution. *Research on Chemical Intermediates*,1	2.8	2
1	Recent advances in BiOX-based photocatalysts to enhanced efficiency for energy and environment applications. *Catalysis Reviews - Science and Engineering*,1-55	12.6	4