Hu Shi

List of Publications by Year
in descending order

53 papers	1,728 citations	257101 24 h-index	288905 40 g-index
53 all docs	53 docs citations	53 times ranked	2233 citing authors

#	Article	IF	Citations
1	Overcoming the Limits of Hypoxia in Photodynamic Therapy: A Carbonic Anhydrase IX-Targeted Approach. Journal of the American Chemical Society, 2017, 139, 7595-7602.	6.6	261
2	Oxygen vacancies in Co3O4 promote CO2 photoreduction. Applied Catalysis B: Environmental, 2022, 300, 120729.	10.8	105
3	CO 2 absorption mechanism in amine solvents and enhancement of CO 2 capture capability in blended amine solvent. International Journal of Greenhouse Gas Control, 2016, 45, 181-188.	2.3	101
4	Development of a theranostic prodrug for colon cancer therapy by combining ligand-targeted delivery and enzyme-stimulated activation. Biomaterials, 2018, 155, 145-151.	5.7	85
5	Overcoming Drug Resistance by Targeting Cancer Bioenergetics with an Activatable Prodrug. CheM, 2018, 4, 2370-2383.	5.8	85
6	Surface Functional Groups and Electrochemical Behavior in Dimethyl Sulfoxideâ€Delaminated Ti₃C₂T_x MXene. ChemSusChem, 2018, 11, 3719-3723.	3.6	83
7	Coumarin-decorated Schiff base hydrolysis as an efficient driving force for the fluorescence detection of water in organic solvents. Chemical Communications, 2016, 52, 8675-8678.	2.2	71
8	Improving the quantum yields of fluorophores by inhibiting twisted intramolecular charge transfer using electron-withdrawing group-functionalized piperidine auxochromes. Chemical Communications, 2020, 56, 715-718.	2.2	67
9	Importance of doping site of B, N, and O in tuning electronic structure of graphynes. Carbon, 2016, 105, 156-162.	5.4	46
10	Pickering-Droplet-Derived MOF Microreactors for Continuous-Flow Biocatalysis with Size Selectivity. Journal of the American Chemical Society, 2021, 143, 16641-16652.	6.6	45
11	Interfacial Microenvironment Modulation Enhancing Catalytic Kinetics of Binary Metal Sulfides Heterostructures for Advanced Water Splitting Electrocatalysts. Small Methods, 2022, 6, e2101186.	4.6	45
12	A Si-rhodamine-based near-infrared fluorescent probe for visualizing endogenous peroxynitrite in living cells, tissues, and animals. Journal of Materials Chemistry B, 2018, 6, 4466-4473.	2.9	39
13	Aromatic secondary amine-functionalized fluorescent NO probes: improved detection sensitivity for NO and potential applications in cancer immunotherapy studies. Chemical Science, 2019, 10, 145-152.	3.7	39
14	Ratiometric immunoassays built from synergistic photonic absorption of size-diverse semiconducting MoS2 nanostructures. Materials Horizons, 2019, 6, 563-570.	6.4	38
15	Revealing the importance of nitrogen doping site in enhancing the oxygen reduction reaction on Î²-graphyne. Carbon, 2017, 123, 415-420.	5.4	37
16	Tautomeric Effect of Histidine on the Monomeric Structure of Amyloid Î²-Peptide(1â€“40). Journal of Physical Chemistry B, 2016, 120, 11405-11411.	1.2	36
17	Tautomeric Effect of Histidine on the Monomeric Structure of Amyloid Î²-Peptide(1â€“42). ACS Chemical Neuroscience, 2017, 8, 669-675.	1.7	35
18	Synthesis and application of [Zr-UiO-66-PDC-SO3H]Cl MOFs to the preparation of dicyanomethylene pyridines via chemical and electrochemical methods. Scientific Reports, 2021, 11, 16817.	1.6	34

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19	Anodic electrosynthesis of MIL-53(Al)-N(CH2PO3H2)2 as a mesoporous catalyst for synthesis of novel (N-methyl-pyrrol)-pyrazolo[3,4-b]pyridines via a cooperative vinylogous anomeric based oxidation. Scientific Reports, 2021, 11, 19370.	1.6	33
20	Selectively constructing nitrogen vacancy in carbon nitrides for efficient syngas production with visible light. Applied Catalysis B: Environmental, 2021, 297, 120496.	10.8	31
21	Zn²⁺ Effect on Structure and Residual Hydrophobicity of Amyloid Î²-Peptide Monomers. Journal of Physical Chemistry B, 2014, 118, 10355-10361.	1.2	28
22	Pseudocapacitive Charge Storage in MXeneâ€“V₂O₅ for Asymmetric Flexible Energy Storage Devices. ACS Applied Materials & Interfaces, 2020, 12, 54791-54797.	4.0	28
23	Intrinsic origin of amyloid aggregation: Behavior of histidine (ÎµÎ¼Î¼) and (ÎÎÎ´) tautomer homodimers of AÎ² (1â€“40). Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 795-801.	1.1	27
24	Tautomerization Effect of Histidines on Oligomer Aggregation of Î²-Amyloid(1â€“40/42) during the Early Stage: Tautomerism Hypothesis for Misfolding Protein Aggregation. ACS Chemical Neuroscience, 2019, 10, 2602-2608.	1.7	27
25	Enhanced performance of Mo₂P monolayer as lithium-ion battery anode materials by carbon and nitrogen doping: a first principles study. Physical Chemistry Chemical Physics, 2021, 23, 4030-4038.	1.3	26
26	Bioinspired Synthesis of Chiral 3,4-Dihydropyranones via S-to-O Acyl-Transfer Reactions. Organic Letters, 2018, 20, 1584-1588.	2.4	24
27	Nitrogen vacancies in polymeric carbon nitrides promote CO2 photoreduction. Journal of Catalysis, 2022, 409, 12-23.	3.1	23
28	Transformable Helical Self-Assembly for Cancerous Golgi Apparatus Disruption. Nano Letters, 2021, 21, 8455-8465.	4.5	22
29	PLK1-Targeted Fluorescent Tumor Imaging with High Signal-to-Background Ratio. ACS Sensors, 2017, 2, 1512-1516.	4.0	20
30	Fabrication and design of new redox active azure A/3D graphene aerogel and conductive trypan blueâ€“nickel MOF nanosheet array electrodes for an asymmetric supercapattery. Journal of Materials Chemistry A, 2021, 9, 12853-12869.	5.2	19
31	Structural and Binding Properties of AÎ² Mature Fibrils Due to the Histidine Tautomeric Effect. ACS Chemical Neuroscience, 2019, 10, 4612-4618.	1.7	18
32	Novel uric acid-based nano organocatalyst with phosphorous acid tags: Application for synthesis of new biologically-interest pyridines with indole moieties via a cooperative vinylogous anomeric based oxidation. Molecular Catalysis, 2021, 507, 111549.	1.0	16
33	Nickel sulfide nanorods decorated on graphene as advanced hydrogen evolution electrocatalysts in acidic and alkaline media. Journal of Colloid and Interface Science, 2022, 608, 2633-2640.	5.0	15
34	Hydrodeoxygenation upgrading of bio-oil on Ni-based catalysts with low Ni loading. Chemical Engineering Science, 2019, 208, 115154.	1.9	14
35	Lightâ€Induced Synthesis of Oxygenâ€Vacancyâ€Functionalized Ni(OH)₂ Nanosheets for Highly Selective CO₂ Reduction. ChemSusChem, 2022, 15, .	3.6	13
36	Hydrogen-Bonded Aggregates Featuring n â†’ Ï€* Electronic Transition for Efficient Visible-Light-Responsive Photocatalysis. ACS Catalysis, 2022, 12, 6276-6284.	5.5	11

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37	The influence of external electric fields on charge reorganization energy in organic semiconductors. Chemical Communications, 2019, 55, 2384-2387.	2.2	9
38	Label-free E-DNA biosensor based on PANi-RGO-G*NPs for detection of cell-free fetal DNA in maternal blood and fetal gender determination in early pregnancy. Biosensors and Bioelectronics, 2021, 189, 113356.	5.3	9
39	Applying strong external electric field to thiopheneâ€based oligomers: A promising approach to upgrade semiconducting performance. Journal of Computational Chemistry, 2017, 38, 304-311.	1.5	8
40	Reduction potential tuning of first row transition metal MIII/MII (M = Cr, Mn, Fe, Co, Ni) hexadentate complexes for viable aqueous redox flow battery catholytes: A DFT study. Electrochimica Acta, 2017, 246, 156-164.	2.6	8
41	An Original Monomer Sampling from a Readyâ€Made AÎ²₄₂ NMR Fibril Suggests a Turnâ€Îµâ€Strand Synergetic Seeding Mechanism. ChemPhysChem, 2019, 20, 1649-1660.	1.0	7
42	Novel poly(p-aminophenol-o-phenylenediamine)/zinc oxide nanocomposites growth on gold electrode: In-situ spectro-electrochemistry and kinetic study. Synthetic Metals, 2021, 274, 116722.	2.1	6
43	Design, synthesis, and bioimaging applications of a new class of carborhodamines. Analyst, The, 2021, 146, 64-68.	1.7	5
44	Assembly of Silicalite-1 Crystals Like Toy Lego Bricks into One-, Two-, and Three-Dimensional Architectures for Enhancing Its Adsorptive Separation and Catalytic Performances. ACS Applied Materials & Interfaces, 2021, 13, 58085-58095.	4.0	5
45	Solvent effect on electron and proton transfer in the excited state of a hydrogen bonded phenolâ€“imidazole complex. RSC Advances, 2014, 4, 38551-38557.	1.7	4
46	A semi-crystalline carbonaceous structure as a wide-spectrum-responsive photocatalyst for efficient redox catalysis. Chemical Communications, 2021, 57, 5086-5089.	2.2	4
47	General method to stabilize mesophilic proteins in hyperthermal water. IScience, 2021, 24, 102503.	1.9	3
48	Insight into the histidine tautomerism effect on heterodimers of AÎ²40. Bulletin of the Korean Chemical Society, 2021, 42, 1549-1554.	1.0	3
49	Ambient Degradation of Perylene Diimide-Based Organic Transistors: Hidden Role of Ozone and External Electric Field. Journal of Physical Chemistry C, 2018, 122, 7067-7074.	1.5	2
50	Role of the English (H6R) Mutation on the Structural Properties of AÎ²40 and AÎ²42 Owing to the Histidine Tautomeric Effect. ACS Chemical Neuroscience, 2021, 12, 2705-2711.	1.7	2
51	Design of one-dimensional organic semiconductors with high intrinsic electron mobilities: lessons from computation. Journal of Materials Chemistry C, 2021, 9, 3620-3625.	2.7	2
52	Fabrication and In Situ Characterization of Au@poly(ortho-aminophenol-co-ortho-phenylenediamine)/tiO₂ Nanocomposite for Use In Electrochemical Sensing of Ampicillin Antibiotic. Journal of the Electrochemical Society, 2020, 167, 127509.	1.3	2
53	Experimental, theoretical and computational study of binary systems of alkanolamines and alkylamines with cyclohexanol at different temperatures. Journal of Chemical Thermodynamics, 2022, 166, 106668.	1.0	2