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	Oxygen vacancies in Co3O4 promote CO2 photoreduction. Applied Catalysis B: Environmental, 2022, 300, 120729.	10.8	105
2	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
3	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
4	Interfacial Microenvironment Modulation Enhancing Catalytic Kinetics of Binary Metal Sulfides Heterostructures for Advanced Water Splitting Electrocatalysts. Small Methods, 2022, 6, e2101186.	4.6	45
5	Nitrogen vacancies in polymeric carbon nitrides promote CO2 photoreduction. Journal of Catalysis, 2022, 409, 12-23.	3.1	23
6	Lightâ€Induced Synthesis of Oxygenâ€Vacancyâ€Functionalized Ni(OH)₂ Nanosheets for Highly Selective CO₂ Reduction. ChemSusChem, 2022, 15, .	3.6	13
7	Hydrogen-Bonded Aggregates Featuring n â†' Ï€* Electronic Transition for Efficient Visible-Light-Responsive Photocatalysis. ACS Catalysis, 2022, 12, 6276-6284.	5.5	11
8	Design, synthesis, and bioimaging applications of a new class of carborhodamines. Analyst, The, 2021, 146, 64-68.	1.7	5
9	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
10	A semi-crystalline carbonaceous structure as a wide-spectrum-responsive photocatalyst for efficient redox catalysis. Chemical Communications, 2021, 57, 5086-5089.	2.2	4
11	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
12	General method to stabilize mesophilic proteins in hyperthermal water. IScience, 2021, 24, 102503.	1.9	3
13	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
14	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
15	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
16	Insight into the histidine tautomerism effect on heterodimers of Aî²40. Bulletin of the Korean Chemical Society, 2021, 42, 1549-1554.	1.0	3
17	Transformable Helical Self-Assembly for Cancerous Golgi Apparatus Disruption. Nano Letters, 2021, 21, 8455-8465.	4.5	22
18	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

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19	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
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	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
22	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
23	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
24	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
25	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
26	Pseudocapacitive Charge Storage in MXeneâ€“V₂O₅ for Asymmetric Flexible Energy Storage Devices. ACS Applied Materials & Interfaces, 2020, 12, 54791-54797.	4.0	28
27	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
28	Ratiometric immunoassays built from synergistic photonic absorption of size-diverse semiconducting MoS2 nanostructures. Materials Horizons, 2019, 6, 563-570.	6.4	38
29	Structural and Binding Properties on AÎ² Mature Fibrils Due to the Histidine Tautomeric Effect. ACS Chemical Neuroscience, 2019, 10, 4612-4618.	1.7	18
30	Hydrodeoxygenation upgrading of bio-oil on Ni-based catalysts with low Ni loading. Chemical Engineering Science, 2019, 208, 115154.	1.9	14
31	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
32	The influence of external electric fields on charge reorganization energy in organic semiconductors. Chemical Communications, 2019, 55, 2384-2387.	2.2	9
33	An Original Monomer Sampling from a Readyâ€Made AÎ²₄₂ NMR Fibril Suggests a Turnâ€Îβâ€Strand Synergetic Seeding Mechanism. ChemPhysChem, 2019, 20, 1649-1660.	1.0	7
34	Intrinsic origin of amyloid aggregation: Behavior of histidine (ÎµÎµÎµ) and (ÎÎÎ) tautomer homodimers of AÎ² (1â€“40). Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 795-801.	1.1	27
35	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
36	Bioinspired Synthesis of Chiral 3,4-Dihydropyranones via S-to-O Acyl-Transfer Reactions. Organic Letters, 2018, 20, 1584-1588.	2.4	24

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37	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
38	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
39	Surface Functional Groups and Electrochemical Behavior in Dimethyl Sulfoxideâ€Delaminated Ti₃C₂T_x MXene. ChemSusChem, 2018, 11, 3719-3723.	3.6	83
40	Overcoming Drug Resistance by Targeting Cancer Bioenergetics with an Activatable Prodrug. CheM, 2018, 4, 2370-2383.	5.8	85
41	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
42	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
43	Tautomeric Effect of Histidine on the Monomeric Structure of Amyloid Î²-Peptide(1â€“42). ACS Chemical Neuroscience, 2017, 8, 669-675.	1.7	35
44	PLK1-Targeted Fluorescent Tumor Imaging with High Signal-to-Background Ratio. ACS Sensors, 2017, 2, 1512-1516.	4.0	20
45	Revealing the importance of nitrogen doping site in enhancing the oxygen reduction reaction on Î²-graphyne. Carbon, 2017, 123, 415-420.	5.4	37
46	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
47	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
48	Importance of doping site of B, N, and O in tuning electronic structure of graphynes. Carbon, 2016, 105, 156-162.	5.4	46
49	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
50	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
51	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
52	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
53	Zn²⁺ Effect on Structure and Residual Hydrophobicity of Amyloid Î²-Peptide Monomers. Journal of Physical Chemistry B, 2014, 118, 10355-10361.	1.2	28