

# Hu Li

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7684252/publications.pdf>

Version: 2024-02-01

103  
papers

2,365  
citations

257450

24  
h-index

254184

43  
g-index

105  
all docs

105  
docs citations

105  
times ranked

2749  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on Graphene-, Graphene Oxide-, Reduced Graphene Oxide-Based Flexible Composites: From Fabrication to Applications. <i>Materials</i> , 2022, 15, 1012.	2.9	211
2	Immobilized functional ionic liquids: efficient, green, and reusable catalysts. <i>RSC Advances</i> , 2012, 2, 12525.	3.6	199
3	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. <i>Small</i> , 2018, 14, e1801346.	10.0	106
4	Effect of scanning speed on the microstructure and mechanical behavior of 316L stainless steel fabricated by selective laser melting. <i>Materials and Design</i> , 2020, 186, 108355.	7.0	99
5	Heterogeneously Chemo/Enzyme-Functionalized Porous Polymeric Catalysts of High-Performance for Efficient Biodiesel Production. <i>ACS Catalysis</i> , 2019, 9, 10990-11029.	11.2	88
6	Catalytic Transfer Hydrogenation of Furfural to Furfuryl Alcohol with Recyclable Al <sup>3+</sup> -Zr@Fe Mixed Oxides. <i>ChemCatChem</i> , 2018, 10, 430-438.	3.7	85
7	Functionalized magnetic nanosized materials for efficient biodiesel synthesis via acid-base/enzyme catalysis. <i>Green Chemistry</i> , 2020, 22, 2977-3012.	9.0	70
8	Eco-friendly acetylcholine-carboxylate bio-ionic liquids for controllable N-methylation and N-formylation using ambient CO <sub>2</sub> at low temperatures. <i>Green Chemistry</i> , 2019, 21, 567-577.	9.0	68
9	Organocatalytic Asymmetric Hydrophosphonylation/Mannich Reactions Using Thiourea, Cinchona and Brønsted Acid Catalysts. <i>Synlett</i> , 2012, 23, 1108-1131.	1.8	62
10	Achieving Ti6Al4V alloys with both high strength and ductility via selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138319.	5.6	60
11	Metal-free photochemical silylations and transfer hydrogenations of benzenoid hydrocarbons and graphene. <i>Nature Communications</i> , 2016, 7, 12962.	12.8	58
12	Lactoperoxidase-mediated degradation of single-walled carbon nanotubes in the presence of pulmonary surfactant. <i>Carbon</i> , 2015, 91, 506-517.	10.3	49
13	Hydrothermal amination of biomass to nitrogenous chemicals. <i>Green Chemistry</i> , 2021, 23, 6675-6697.	9.0	48
14	Single-Walled Carbon Nanotubes Inhibit the Cytochrome P450 Enzyme, CYP3A4. <i>Scientific Reports</i> , 2016, 6, 21316.	3.3	43
15	Polymeric Ionic Hybrid as Solid Acid Catalyst for the Selective Conversion of Fructose and Glucose to 5-Hydroxymethylfurfural. <i>Energy Technology</i> , 2013, 1, 151-156.	3.8	40
16	Site-selective local fluorination of graphene induced by focused ion beam irradiation. <i>Scientific Reports</i> , 2016, 6, 19719.	3.3	36
17	Understanding the effect of scanning strategies on the microstructure and crystallographic texture of Ti-6Al-4V alloy manufactured by laser powder bed fusion. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117366.	6.3	35
18	Heterogeneous ZnO-containing catalysts for efficient biodiesel production. <i>RSC Advances</i> , 2021, 11, 20465-20478.	3.6	33

#	ARTICLE	IF	CITATIONS
19	Heterogeneous Catalytic Upgrading of Biofuranic Aldehydes to Alcohols. <i>Frontiers in Chemistry</i> , 2019, 7, 529.	3.6	32
20	Catalytic Upgrading of Biomass-Derived Sugars with Acidic Nanoporous Materials: Structural Role in Carbon-Chain Length Variation. <i>ChemSusChem</i> , 2019, 12, 347-378.	6.8	30
21	Ion Transport beyond the Polyether Paradigm: Introducing Oligocarbonate Ion Transporters for Efficient Light-Emitting Electrochemical Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1801295.	14.9	28
22	Advances in Diels-Alder/aromatization of biomass furan derivatives towards renewable aromatic hydrocarbons. <i>Catalysis Science and Technology</i> , 2022, 12, 1902-1921.	4.1	28
23	Visible-light-driven prompt and quantitative production of lactic acid from biomass sugars over a N-TiO <sub>2</sub> photothermal catalyst. <i>Green Chemistry</i> , 2021, 23, 10039-10049.	9.0	27
24	Simply Assembly of Acidic Nanospheres for Efficient Production of 5-Ethoxymethylfurfural from 5-Hydroxymethylfurfural and Fructose. <i>Energy Technology</i> , 2017, 5, 2046-2054.	3.8	26
25	A Facile Direct Route to <i>N</i> -(Un)substituted Lactams by Cycloamination of Oxocarboxylic Acids without External Hydrogen. <i>ChemSusChem</i> , 2019, 12, 3778-3784.	6.8	26
26	Synergetic combination of a mesoporous polymeric acid and a base enables highly efficient heterogeneous catalytic one-pot conversion of crude <i>Jatropha</i> oil into biodiesel. <i>Green Chemistry</i> , 2020, 22, 1698-1709.	9.0	25
27	Superior adhesion of graphene nanoscrolls. <i>Communications Physics</i> , 2018, 1, .	5.3	24
28	Efficient Catalytic Production of Biodiesel with Acid-Base Bifunctional Rod-Like Ca-B Oxides by the Sol-Gel Approach. <i>Materials</i> , 2019, 12, 83.	2.9	24
29	Fabrication of reproducible sub-5-nm nanogaps by a focused ion beam and observation of Fowler-Nordheim tunneling. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	23
30	Heteropoly Acid-Based Catalysts for Hydrolytic Depolymerization of Cellulosic Biomass. <i>Frontiers in Chemistry</i> , 2020, 8, 580146.	3.6	23
31	Polymer fracture and deformation during nanosectioning in an ultramicrotome. <i>Engineering Fracture Mechanics</i> , 2017, 182, 595-606.	4.3	22
32	White-Light Photoassisted Covalent Functionalization of Graphene Using 2-Propanol. <i>Small Methods</i> , 2017, 1, 1700214.	8.6	22
33	Recovery of circulating CD56dim NK cells and the balance of Th17/Treg after nucleoside analog therapy in patients with chronic hepatitis B and low levels of HBsAg. <i>International Immunopharmacology</i> , 2018, 62, 59-66.	3.8	22
34	Solution-Processed HfO <sub>x</sub> for Half-Volt Operation of InGaZnO Thin-Film Transistors. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1581-1589.	4.3	22
35	Recent advances in liquid hydrosilane-mediated catalytic <i>N</i> -formylation of amines with CO <sub>2</sub> . <i>RSC Advances</i> , 2020, 10, 33972-34005.	3.6	20
36	CO <sub>2</sub> -Enabled Biomass Fractionation/Depolymerization: A Highly Versatile Pre-Step for Downstream Processing. <i>ChemSusChem</i> , 2020, 13, 3565-3582.	6.8	20

#	ARTICLE	IF	CITATIONS
37	Biom mineralization on single crystalline rutile: the modulated growth of hydroxyapatite by fibronectin in a simulated body fluid. <i>RSC Advances</i> , 2016, 6, 35507-35516.	3.6	19
38	ZrOCl <sub>2</sub> as a bifunctional and <i>in situ</i> precursor material for catalytic hydrogen transfer of bio-based carboxides. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3102-3114.	4.9	19
39	Rate effects on localized shear deformation during nanosectioning of an amorphous thermoplastic polymer. <i>International Journal of Solids and Structures</i> , 2017, 129, 40-48.	2.7	18
40	Efficient Transfer Hydrogenation of Nitro Compounds to Amines Enabled by Mesoporous N-Stabilized Co-Zn/C. <i>Frontiers in Chemistry</i> , 2019, 7, 590.	3.6	18
41	Direct writing of lateral fluorographene nanopatterns with tunable bandgaps and its application in new generation of moiré superlattice. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	18
42	A substituent- and temperature-controllable NHC-derived zwitterionic catalyst enables CO <sub>2</sub> upgrading for high-efficiency construction of formamides and benzimidazoles. <i>Green Chemistry</i> , 2021, 23, 5759-5765.	9.0	18
43	Circulating T follicular helper cells are associated with rapid virological response in chronic hepatitis C patients undergoing peginterferon therapy. <i>International Immunopharmacology</i> , 2016, 34, 235-243.	3.8	17
44	Numerical and experimental analysis of thermal and mechanical behavior of NiCrBSi coatings during the plasma spray process. <i>Journal of Materials Processing Technology</i> , 2017, 249, 471-478.	6.3	17
45	Efficient Catalytic Upgradation of Bio-Based Furfuryl Alcohol to Ethyl Levulinate Using Mesoporous Acidic MIL-101(Cr). <i>ACS Omega</i> , 2019, 4, 8390-8399.	3.5	17
46	Compressive behavior and vibration-damping properties of porous Ti-6Al-4V alloy manufactured by laser powder bed fusion. <i>Journal of Manufacturing Processes</i> , 2021, 66, 1-10.	5.9	16
47	Experimental observation of size-dependent behavior in surface energy of gold nanoparticles through atomic force microscope. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	15
48	Phosphotungstic acid heterogenized by assembly with pyridines for efficient catalytic conversion of fructose to methyl levulinate. <i>RSC Advances</i> , 2018, 8, 16585-16592.	3.6	15
49	Low-temperature catalytic hydrogenation of bio-based furfural and relevant aldehydes using cesium carbonate and hydrosiloxane. <i>RSC Advances</i> , 2019, 9, 3063-3071.	3.6	15
50	High-throughput DNA Tensioner Platform for Interrogating Mechanical Heterogeneity of Single Living Cells. <i>Small</i> , 2022, 18, e2106196.	10.0	15
51	Progress of Catalytic Valorization of Bio-Glycerol with Urea into Glycerol Carbonate as a Monomer for Polymeric Materials. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-17.	1.7	13
52	A sub 20 nm metal-conjugated molecule junction acting as a nitrogen dioxide sensor. <i>Nanoscale</i> , 2019, 11, 6571-6575.	5.6	12
53	Click Chemistry Enabling Covalent and Non-Covalent Modifications of Graphene with (Poly)saccharides. <i>Polymers</i> , 2021, 13, 142.	4.5	12
54	Nanoresolution patterning of hydrogenated graphene by electron beam induced C-H dissociation. <i>Nanotechnology</i> , 2018, 29, 415304.	2.6	11

#	ARTICLE	IF	CITATIONS
55	Size-dependent elasticity of gold nanoparticle measured by atomic force microscope based nanoindentation. Applied Physics Letters, 2019, 115, .	3.3	11
56	Moiré patterns arising from bilayer graphone/graphene superlattice. Nano Research, 2020, 13, 1060-1064.	10.4	11
57	Catalytic Upgrading of Bio-Based 5-Hydroxymethylfurfural to 2,5-Dimethylfuran with Non-Noble Metals. Energy Technology, 2021, 9, 2100653.	3.8	10
58	Single-Atom Catalysts Enabled Reductive Upgrading of CO <sub>2</sub> . ChemCatChem, 2021, 13, 4859-4877.	3.7	10
59	Photoluminescent Semiconducting Graphene Nanoribbons via Longitudinally Unzipping Single-Walled Carbon Nanotubes. ACS Applied Materials & Interfaces, 2021, 13, 52892-52900.	8.0	10
60	Tfh cell-mediated humoral immune response and HBsAg level can predict HBeAg seroconversion in chronic hepatitis B patients receiving peginterferon- $\alpha$ therapy. Molecular Immunology, 2016, 73, 37-45.	2.2	9
61	Comparison of test methods estimating the stiffness of ultrathin coatings. Journal of Coatings Technology Research, 2018, 15, 743-752.	2.5	9
62	Optimization and analysis of pyrene-maltose functionalized graphene surfaces for Con A detection. Applied Surface Science, 2020, 510, 145409.	6.1	9
63	An Improved System to Evaluate Superoxide Scavenging Effects of Bioflavonoids. ChemistryOpen, 2021, 10, 503-514.	1.9	9
64	One-step upgrading of bio-based furfural to $\gamma$ -valerolactone via HfCl <sub>4</sub> -mediated bifunctional catalysis. RSC Advances, 2021, 11, 35415-35424.	3.6	9
65	Carboxylate-Functionalized Zeolitic Imidazolate Framework Enables Catalytic N-Formylation Using Ambient CO <sub>2</sub> . Advanced Sustainable Systems, 2022, 6, .	5.3	9
66	Preparation and characterization of UV-curable copolymers containing alkali soluble carboxyl pendant for negative photoresist. Polymer Science - Series B, 2014, 56, 855-862.	0.8	8
67	Synthesis of novel branched UV-curable methacrylate copolymer and its application in negative photoresist. Polymer Bulletin, 2015, 72, 523-533.	3.3	8
68	One-pot synthesis of molecular glass photoresists based on $\beta$ -cyclodextrin containing a t-butyloxy carbonyl group for i-line lithography. Polymer Bulletin, 2017, 74, 1091-1101.	3.3	7
69	Influence of the Rear Interface on Composition and Photoluminescence Yield of CZTSSe Absorbers: A Case for an Al <sub>2</sub> O <sub>3</sub> Intermediate Layer. ACS Applied Materials & Interfaces, 2021, 13, 19487-19496.	8.0	7
70	Catalytic Stereoselective Conversion of Biomass-Derived 4-Methoxypropiophenone to Trans-Anethole with a Bifunctional and Recyclable Hf-Based Polymeric Nanocatalyst. Polymers, 2021, 13, 2808.	4.5	7
71	ZIF-67 Derived Co/NC Nanoparticles Enable Catalytic Leuckart-type Reductive Amination of Bio-based Carbonyls to N-Formyl Compounds. ChemCatChem, 2021, 13, 5166-5177.	3.7	7
72	Synthesis of chemically amplified photoresist polymer containing four (Meth)acrylate monomers via RAFT polymerization and its application for KrF lithography. Journal of Polymer Research, 2016, 23, 1.	2.4	6

#	ARTICLE	IF	CITATIONS
73	Hierarchical Porous MIL-101(Cr) Solid Acid-Catalyzed Production of Value-Added Acetals from Biomass-Derived Furfural. <i>Polymers</i> , 2021, 13, 3498.	4.5	6
74	Magnetic solid sulfonic acid-enabled direct catalytic production of biomass-derived <i>N</i> -substituted pyrroles. <i>New Journal of Chemistry</i> , 2022, 46, 5312-5320.	2.8	6
75	Novel one-component molecular glass photoresist based on cyclotriphosphazene containing <i>t</i> -butyloxy carbonyl group for <i>i</i> -line lithography. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	5
76	F-containing ionic liquid-catalyzed benign and rapid hydrogenation of bio-based furfural and relevant aldehydes using siloxane as hydrogen source. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 795-802.	4.6	5
77	Advances in Heterogeneously Catalytic Degradation of Biomass Saccharides with Ordered-Nanoporous Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 16970-16986.	3.7	5
78	Graphene-Oxide-Based Fluoro- and Chromo-Genic Materials and Their Applications. <i>Molecules</i> , 2022, 27, 2018.	3.8	5
79	Recent Biotechnology Advances in Bio-Conversion of Lignin to Lipids by Bacterial Cultures. <i>Frontiers in Chemistry</i> , 2022, 10, 894593.	3.6	5
80	Research Progress on the Photo-Driven Catalytic Production of Biodiesel. <i>Frontiers in Chemistry</i> , 2022, 10, 904251.	3.6	5
81	A strong conservative tendency in HBV transcriptase (RT): a majority of natural RT mutations derived from the S gene. <i>Liver International</i> , 2016, 36, 963-970.	3.9	4
82	Eu 3+ doped monetite and its use as fluorescent agent for dental restorations. <i>Ceramics International</i> , 2018, 44, 10510-10516.	4.8	4
83	Structural Evolution of AlN Nanoclusters and the Elemental Chemisorption Characteristics: Atomistic Insight. <i>Nanomaterials</i> , 2019, 9, 1420.	4.1	4
84	Room-temperature quasi-catalytic hydrogen generation from waste and water. <i>Green Chemistry</i> , 2021, 23, 7528-7533.	9.0	4
85	Electrocatalytic Oxidation of Biomass-derived 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic acid Coupled with H <sub>2</sub> Evolution. <i>Current Organic Chemistry</i> , 2021, 25, .	1.6	4
86	Sustainable and rapid production of biofuel $\gamma$ -valerolactone from biomass-derived levulinate enabled by a fluoride-ionic liquid. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 905-915.	2.3	3
87	Efficacy of PEGylated Interferon in Treatment-Experienced Chinese Patients With HBeAg Positive Chronic Hepatitis B. <i>Hepatitis Monthly</i> , 2016, 16, e35357.	0.2	3
88	<i>n</i> -Butyllithium. <i>Synlett</i> , 2012, 23, 1407-1408.	1.8	2
89	Enhanced gas sensing performance of graphene/ZnS-CdS hetero-nanowires gas sensor synthesized by Langmuir-Blodgett self-assembly method. <i>Journal of Physics: Conference Series</i> , 2017, 922, 012023.	0.4	2
90	Effect of nanosectioning on surface features and stiffness of an amorphous glassy polymer. <i>Polymer Engineering and Science</i> , 2018, 58, 1849-1857.	3.1	2

#	ARTICLE	IF	CITATIONS
91	Sustainable Catalyst-free N-formylation using CO <sub>2</sub> as a Carbon Source. <i>Current Organic Synthesis</i> , 2022, 19, 187-196.	1.3	2
92	Fabrication of BP2T functionalized graphene via non-covalent $\pi$ - $\pi$ stacking interactions for enhanced ammonia detection. <i>RSC Advances</i> , 2021, 11, 35982-35987.	3.6	2
93	Electron-Beam-Induced Fluorination Cycle for Long-Term Preservation of Graphene under Ambient Conditions. <i>Nanomaterials</i> , 2022, 12, 383.	4.1	2
94	Reductive Upgrading of Biomass-Based Levulinic Acid to $\gamma$ -Valerolactone Over Ru-Based Single-Atom Catalysts. <i>Frontiers in Chemistry</i> , 2022, 10, 895198.	3.6	2
95	Analysis of molecular ligand functionalization process in nano-molecular electronic devices containing densely packed nano-particle functionalization shells. <i>Nanotechnology</i> , 2022, 33, 255706.	2.6	2
96	A New Lamellar Biocarbon Catalyst with Enhanced Acidity and Contact Sites for Efficient Biodiesel Production. <i>Waste and Biomass Valorization</i> , 2022, 13, 4223-4238.	3.4	2
97	An electron energy loss spectrometer based streak camera for time resolved TEM measurements. <i>Ultramicroscopy</i> , 2017, 176, 5-10.	1.9	1
98	Direct measurement of the surface energy of single-walled carbon nanotubes through atomic force microscopy. <i>Journal of Applied Physics</i> , 2019, 126, 065105.	2.5	1
99	One-pot domino conversion of biomass-derived furfural to $\gamma$ -valerolactone with an in-situ formed bifunctional catalyst. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-17.	2.3	1
100	Higher baseline viral diversity correlates with lower HBsAg decline following PEGylated interferon-alpha therapy in patients with HBsAg-positive chronic hepatitis B. <i>Infection and Drug Resistance</i> , 2018, Volume 11, 671-680.	2.7	0
101	Editorial: Sustainable Catalytic Production of Bio-Based Heteroatom-Containing Compounds. <i>Frontiers in Chemistry</i> , 2020, 8, 628859.	3.6	0
102	Temperature-Dependent Diels-Alder Cycloaddition on Polyoxometalate-Supported Single-Atom Catalysts M <sub>1</sub> /PTA (M=Mn, Fe, Co, Ru, Rh, Pd, Os, Ir and Pt; PTA=[PW <sub>12</sub> O <sub>40</sub> ] <sup>3-</sup> ). <i>ChemistrySelect</i> , 2021, 6, 10991-10997.	1.5	0
103	Room-temperature selective hydrogenation of unsaturated biomass feedstocks enabled by hydrosilane and eggshell-derived catalyst with enhanced basicity and hydrophobicity. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1663-1677.	4.6	0