Bo Hu

List of Publications by Year
in descending order

110 papers	6,505 citations	136950 32 h-index	69250 77 g-index
114 all docs	114 docs citations	114 times ranked	10531 citing authors

#	Article	IF	Citations
1	Engineering Carbon Materials from the Hydrothermal Carbonization Process of Biomass. Advanced Materials, 2010, 22, 813-828.	21.0	1,492
2	Systemic Immune-Inflammation Index Predicts Prognosis of Patients after Curative Resection for Hepatocellular Carcinoma. Clinical Cancer Research, 2014, 20, 6212-6222.	7.0	1,012
3	Large-Scale Synthesis of Flexible Free-Standing SERS Substrates with High Sensitivity: Electrospun PVA Nanofibers Embedded with Controlled Alignment of Silver Nanoparticles. ACS Nano, 2009, 3, 3993-4002.	14.6	373
4	Microwave-Assisted Rapid Facile â€œGreenâ€•Synthesis of Uniform Silver Nanoparticles: Self-Assembly into Multilayered Films and Their Optical Properties. Journal of Physical Chemistry C, 2008, 112, 11169-11174.	3.1	240
5	Functional carbonaceous materials from hydrothermal carbonization of biomass: an effective chemical process. Dalton Transactions, 2008, , 5414.	3.3	196
6	CD73 promotes hepatocellular carcinoma progression and metastasis via activating PI3K/AKT signaling by inducing Rap1-mediated membrane localization of P110Î² and predicts poor prognosis. Journal of Hematology and Oncology, 2019, 12, 37.	17.0	150
7	Ordering of Disordered Nanowires: Spontaneous Formation of Highly Aligned, Ultralong Ag Nanowire Films at Oilâ€“Waterâ€“Air Interface. Advanced Functional Materials, 2010, 20, 958-964.	14.9	139
8	In Situ Growth Strategy to Integrate Up-Conversion Nanoparticles with Ultrasmall CuS for Photothermal Theranostics. ACS Nano, 2017, 11, 1064-1072.	14.6	132
9	Circulating Tumor Cells from Different Vascular Sites Exhibit Spatial Heterogeneity in Epithelial and Mesenchymal Composition and Distinct Clinical Significance in Hepatocellular Carcinoma. Clinical Cancer Research, 2018, 24, 547-559.	7.0	112
10	Circulating Tumor Cells with Stem-Like Phenotypes for Diagnosis, Prognosis, and Therapeutic Response Evaluation in Hepatocellular Carcinoma. Clinical Cancer Research, 2018, 24, 2203-2213.	7.0	102
11	Avoiding Thiol Compound Interference: A Nanoplatform Based on Highâ€Fidelity Auâ€“Se Bonds for Biological Applications. Angewandte Chemie - International Edition, 2018, 57, 5306-5309.	13.8	100
12	Clinical Significance of EpCAM mRNA-Positive Circulating Tumor Cells in Hepatocellular Carcinoma by an Optimized Negative Enrichment and qRT-PCRâ€“Based Platform. Clinical Cancer Research, 2014, 20, 4794-4805.	7.0	99
13	Uniformly Shaped Poly(pâ€phenylenediamine) Microparticles: Shapeâ€controlled Synthesis and Their Potential Application for the Removal of Lead Ions from Water. Advanced Functional Materials, 2008, 18, 1105-1111.	14.9	96
14	Size-controllable palladium nanoparticles immobilized on carbon nanospheres for nitroaromatic hydrogenation. Journal of Materials Chemistry A, 2013, 1, 3783.	10.3	92
15	An Ultrasensitive Cyclizationâ€Based Fluorescent Probe for Imaging Native HOBr in Live Cells and Zebrafish. Angewandte Chemie - International Edition, 2016, 55, 12751-12754.	13.8	90
16	Dissecting spatial heterogeneity and the immune-evasion mechanism of CTCs by single-cell RNA-seq in hepatocellular carcinoma. Nature Communications, 2021, 12, 4091.	12.8	90
17	Microwave-assisted synthesis of silver indium tungsten oxide mesocrystals and their selective photocatalytic properties. Chemical Communications, 2010, 46, 2277.	4.1	79
18	Sphere-forming culture enriches liver cancer stem cells and reveals Stearoyl-CoA desaturase 1 as a potential therapeutic target. BMC Cancer, 2019, 19, 760.	2.6	78

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19	Mesocrystals of Rutile TiO₂: Mesoscale Transformation, Crystallization, and Growth by a Biologic Molecules-Assisted Hydrothermal Process. Crystal Growth and Design, 2009, 9, 203-209.	3.0	75
20	High Upconversion Efficiency from Hetero Tripletâ€“Triplet Annihilation in Multiacceptor Systems. Journal of Physical Chemistry Letters, 2013, 4, 2334-2338.	4.6	75
21	Auâ€“Se-Bond-Based Nanoprobe for Imaging MMP-2 in Tumor Cells under a High-Thiol Environment. Analytical Chemistry, 2018, 90, 4719-4724.	6.5	67
22	Anlotinib suppresses tumor progression via blocking the VEGFR2/PI3K/AKT cascade in intrahepatic cholangiocarcinoma. Cell Death and Disease, 2020, 11, 573.	6.3	65
23	A polymeric nanoparticle formulation of curcumin in combination with sorafenib synergistically inhibits tumor growth and metastasis in an orthotopic model of human hepatocellular carcinoma. Biochemical and Biophysical Research Communications, 2015, 468, 525-532.	2.1	59
24	Selective Chromogenic Detection of Thiol-Containing Biomolecules Using Carbonaceous Nanospheres Loaded with Silver Nanoparticles as Carrier. ACS Nano, 2011, 5, 3166-3171.	14.6	56
25	An Ultrasensitive Cyclizationâ€Based Fluorescent Probe for Imaging Native HOBr in Live Cells and Zebrafish. Angewandte Chemie, 2016, 128, 12943-12946.	2.0	56
26	Circulating CD14⁺HLAâ€ÐR^{â^'/low} myeloidâ€derived suppressor cells predicted early recurrence of hepatocellular carcinoma after surgery. Hepatology Research, 2017, 47, 1061-1071.	3.4	56
27	Surface plasmon-photosensitizer resonance coupling: an enhanced singlet oxygen production platform for broad-spectrum photodynamic inactivation of bacteria. Journal of Materials Chemistry B, 2014, 2, 7073-7081.	5.8	46
28	Apolipoprotein A1: a novel serum biomarker for predicting the prognosis of hepatocellular carcinoma after curative resection. Oncotarget, 2016, 7, 70654-70668.	1.8	44
29	Selective colorimetric detection of glutathione based on quasi-stable gold nanoparticles assembly. New Journal of Chemistry, 2013, 37, 3853.	2.8	43
30	Polymeric immunoglobulin receptor promotes tumor growth in hepatocellular carcinoma. Hepatology, 2017, 65, 1948-1962.	7.3	43
31	Unique Lamellar Sodium/Potassium Iron Oxide Nanosheets: Facile Microwave-Assisted Synthesis and Magnetic and Electrochemical Properties. Chemistry of Materials, 2011, 23, 3946-3952.	6.7	42
32	Real-Time in Situ Visualizing of the Sequential Activation of Caspase Cascade Using a Multicolor Goldâ€“Selenium Bonding Fluorescent Nanoprobe. Analytical Chemistry, 2019, 91, 5994-6002.	6.5	41
33	Droplet-based PCR in a 3D-printed microfluidic chip for miRNA-21 detection. Analytical Methods, 2019, 11, 3286-3293.	2.7	33
34	Circulating microRNA-422a is associated with lymphatic metastasis in lung cancer. Oncotarget, 2017, 8, 42173-42188.	1.8	33
35	Dynamic Liquid Surface Enhanced Raman Scattering Platform Based on Soft Tubular Microfluidics for Label-Free Cell Detection. Analytical Chemistry, 2019, 91, 7973-7979.	6.5	32
36	Detection of circulating tumour cells enables early recurrence prediction in hepatocellular carcinoma patients undergoing liver transplantation. Liver International, 2021, 41, 562-573.	3.9	32

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37	Controllable Synthesis of Zincâ€Substituted Î±â€•and Î²â€Nickel Hydroxide Nanostructures and Their Collective Intrinsic Properties. Chemistry - A European Journal, 2008, 14, 8928-8938.	3.3	31
38	Simultaneous fluorescence imaging of selenol and hydrogen peroxide under normoxia and hypoxia in HepG2 cells and in vivo. Chemical Communications, 2016, 52, 6693-6696.	4.1	31
39	A nanosensor for inÂvivo selenol imaging based on the formation of Au Se bonds. Biomaterials, 2016, 92, 81-89.	11.4	30
40	Long non-coding RNA00364 represses hepatocellular carcinoma cell proliferation via modulating p-STAT3-IFIT2 signaling axis. Oncotarget, 2017, 8, 102006-102019.	1.8	30
41	Novel Anatase TiO₂ Boxes and Tree-like Structures Assembled by Hollow Tubes: <scp>d</scp>,<scp>l</scp>-Malic Acid-Assisted Hydrothermal Synthesis, Growth Mechanism, and Photocatalytic Properties. Crystal Growth and Design, 2009, 9, 1511-1518.	3.0	29
42	Plasmon-enhanced homogeneous and heterogeneous tripletâ€“triplet annihilation by gold nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 14479-14483.	2.8	29
43	HOXB7 promotes tumor progression via bFGF-induced activation of MAPK/ERK pathway and indicated poor prognosis in hepatocellular carcinoma. Oncotarget, 2017, 8, 47121-47135.	1.8	29
44	KPNA3 Confers Sorafenib Resistance to Advanced Hepatocellular Carcinoma via TWIST Regulated Epithelial-Mesenchymal Transition. Journal of Cancer, 2019, 10, 3914-3925.	2.5	27
45	Application of Serum Annexin A3 in Diagnosis, Outcome Prediction and Therapeutic Response Evaluation for Patients with Hepatocellular Carcinoma. Annals of Surgical Oncology, 2018, 25, 1686-1694.	1.5	25
46	Syringe pump-assisted synthesis of water-soluble cubic structure Ag2Se nanocrystals by a cation-exchange reaction. Journal of Colloid and Interface Science, 2008, 325, 351-355.	9.4	24
47	Ascorbic acid induced HepG2 cells' apoptosis via intracellular reductive stress. Theranostics, 2019, 9, 4233-4240.	10.0	24
48	Intelligent Control Strategy for Transient Response of a Variable Geometry Turbocharger System Based on Deep Reinforcement Learning. Processes, 2019, 7, 601.	2.8	24
49	Highly Erbium-Doped Nanoplatform with Enhanced Red Emission for Dual-Modal Optical-Imaging-Guided Photodynamic Therapy. Inorganic Chemistry, 2018, 57, 14594-14602.	4.0	23
50	Effect of surgical margin on recurrence based on preoperative circulating tumor cell status in hepatocellular carcinoma. EBioMedicine, 2020, 62, 103107.	6.1	23
51	Hierarchical silver indium tungsten oxide mesocrystals with morphology-, pressure-, and temperature-dependent luminescence properties. Nano Research, 2010, 3, 395-403.	10.4	22
52	Avoiding Thiol Compound Interference: A Nanoplatform Based on Highâ€Fidelity Auâ€“Se Bonds for Biological Applications. Angewandte Chemie, 2018, 130, 5404-5407.	2.0	22
53	Promyelocytic leukemia protein induces arsenic trioxide resistance through regulation of aldehyde dehydrogenase 3 family member A1 in hepatocellular carcinoma. Cancer Letters, 2015, 366, 112-122.	7.2	21
54	Tumour-suppressive role of PTPN13 in hepatocellular carcinoma and its clinical significance. Tumor Biology, 2016, 37, 9691-9698.	1.8	20

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55	PARG inhibition limits HCC progression and potentiates the efficacy of immune checkpoint therapy. Journal of Hepatology, 2022, 77, 140-151.	3.7	20
56	Engineering of Removing Sacrificial Materials in 3D-Printed Microfluidics. Micromachines, 2018, 9, 327.	2.9	19
57	Shanghai Score. Chinese Medical Journal, 2017, 130, 2650-2660.	2.3	18
58	A review of recent advancements in Ni-related materials used for microwave absorption. Journal Physics D: Applied Physics, 2021, 54, 473003.	2.8	18
59	3D-Printed Concentration-Controlled Microfluidic Chip with Diffusion Mixing Pattern for the Synthesis of Alginate Drug Delivery Microgels. Nanomaterials, 2019, 9, 1451.	4.1	17
60	Porous nanocomposite membranes based on functional GO with selective function for lithium adsorption. New Journal of Chemistry, 2018, 42, 4432-4442.	2.8	16
61	Shifting Deep Reinforcement Learning Algorithm Toward Training Directly in Transient Real-World Environment: A Case Study in Powertrain Control. IEEE Transactions on Industrial Informatics, 2021, 17, 8198-8206.	11.3	16
62	TGM3 promotes epithelialâ€“mesenchymal transition and hepatocellular carcinogenesis and predicts poor prognosis for patients after curative resection. Digestive and Liver Disease, 2020, 52, 668-676.	0.9	15
63	MicroRNA-19a-3p regulates cell growth through modulation of the PIK3IP1-AKT pathway in hepatocellular carcinoma. Journal of Cancer, 2020, 11, 2476-2484.	2.5	15
64	A fluorescent molecularly imprinted polymer sensor synthesized by atom transfer radical precipitation polymerization for determination of ultra trace fenvalerate in the environment. RSC Advances, 2016, 6, 81346-81353.	3.6	13
65	River meander-inspired cross-section in 3D-printed helical microchannels for inertial focusing and enrichment. Sensors and Actuators B: Chemical, 2019, 301, 127125.	7.8	13
66	Far upstream element-binding protein 1 facilitates hepatocellular carcinoma invasion and metastasis. Carcinogenesis, 2020, 41, 950-960.	2.8	13
67	Simulation and practice of particle inertial focusing in 3D-printed serpentine microfluidic chips via commercial 3D-printers. Soft Matter, 2020, 16, 3096-3105.	2.7	13
68	CD155/SRC complex promotes hepatocellular carcinoma progression via inhibiting the p38 MAPK signalling pathway and correlates with poor prognosis. Clinical and Translational Medicine, 2022, 12, e794.	4.0	13
69	Constructing porous intramolecular donorâ€“acceptor integrated carbon nitride doped with m-aminophenol for boosting photocatalytic degradation and hydrogen evolution activity. Catalysis Science and Technology, 2022, 12, 4591-4604.	4.1	13
70	An Adaptive Hierarchical Energy Management Strategy for Hybrid Electric Vehicles Combining Heuristic Domain Knowledge and Data-Driven Deep Reinforcement Learning. IEEE Transactions on Transportation Electrification, 2022, 8, 3275-3288.	7.8	12
71	Differentially expressed miRNAs in hepatocellular carcinoma cells under hypoxic conditions are associated with transcription and phosphorylation. Oncology Letters, 2017, 15, 467-474.	1.8	11
72	Eight Hundred Years of Drought and Flood Disasters and Precipitation Sequence Reconstruction in Wuzhou City, Southwest China. Water (Switzerland), 2019, 11, 219.	2.7	11

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73	BCL11B suppresses tumor progression and stem cell traits in hepatocellular carcinoma by restoring p53 signaling activity. Cell Death and Disease, 2020, 11, 895.	6.3	11
74	Zwitterion imprinted composite membranes with obvious antifouling character for selective separation of Li ions. Korean Journal of Chemical Engineering, 2020, 37, 707-715.	2.7	11
75	Facile PEG-based isolation and classification of cancer extracellular vesicles and particles with label-free surface-enhanced Raman scattering and pattern recognition algorithm. Analyst, The, 2021, 146, 1949-1955.	3.5	11
76	Drug preconcentration and direct quantification in biofluids using 3D-Printed paper cartridge. Biosensors and Bioelectronics, 2021, 189, 113266.	10.1	11
77	Simultaneously Enhanced Singlet Oxygen and Fluorescence Production of Nanoplatform by Surface Plasmon Resonance Coupling for Biomedical Applications. Langmuir, 2019, 35, 14833-14839.	3.5	10
78	Clinical Characteristics and Prognostic Factors of Patients with Intrahepatic Cholangiocarcinoma with Fever: A Propensity Score Matching Analysis. Oncologist, 2019, 24, 997-1007.	3.7	9
79	Plasmonic modulated upconversion fluorescence by adjustable distributed gold nanoparticles. Journal of Luminescence, 2020, 220, 116974.	3.1	9
80	Monitoring the Activation of Caspases-1/3/4 for Describing the Pyroptosis Pathways of Cancer Cells. Analytical Chemistry, 2021, 93, 12022-12031.	6.5	9
81	Targetable Mesoporous Silica Nanoprobes for Mapping the Subcellular Distribution of H₂Se in Cancer Cells. ACS Applied Materials & Interfaces, 2018, 10, 17345-17351.	8.0	8
82	Elevated soluble programmed death-ligand 1 levels indicate immunosuppression and poor prognosis in hepatocellular carcinoma patients undergoing transcatheter arterial chemoembolization. Clinica Chimica Acta, 2020, 511, 67-74.	1.1	8
83	Mucin 1 promotes tumor progression through activating WNT/Î²-catenin signaling pathway in intrahepatic cholangiocarcinoma. Journal of Cancer, 2021, 12, 6937-6947.	2.5	8
84	Excitation of surface plasmons in a single silver nanowire using higher-order-mode light. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1751-1754.	2.7	7
85	Electronic, Optical, and Charge Transport Properties of New 2,1,3-Benzothiadiazole-Based Derivative for Organic Light-Emitting Diodes. Spectroscopy Letters, 2012, 45, 17-21.	1.0	7
86	Non-powered capillary force-driven stamped approach for directly printing nanomaterials aqueous solution on paper substrate. Lab on A Chip, 2020, 20, 931-941.	6.0	7
87	Mineralization of calcite ribbons on an Allium fistulosum L. bulb inner membrane in an ethanolâ€“water mixed solvent under control of polyacrylic acid by a double diffusion method. CrystEngComm, 2010, 12, 3593.	2.6	6
88	Dual Control of Interparticle Forces in Assembly of Gold Nanoparticles. ChemPlusChem, 2013, 78, 506-514.	2.8	6
89	Lightâ€Harvesting Photosensitizers for Photodynamic Inactivation of Bacteria under Both Visible and Nearâ€Infrared Excitations. Chemistry - an Asian Journal, 2016, 11, 1092-1097.	3.3	5
90	Elastoplastic Deformation of Silk Micro- and Nanostructures. ACS Biomaterials Science and Engineering, 2016, 2, 893-899.	5.2	5

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91	Magnetic anomaly characteristics of surface crack defects in a titanium alloy plate. Nondestructive Testing and Evaluation, 2021, 36, 209-224.	2.1	5
92	Smartphone-Based Quantitative Fluorescence Detection of Flowing Droplets Using Embedded Ambient Light Sensor. IEEE Sensors Journal, 2021, 21, 4451-4461.	4.7	5
93	Removal of Sulfadiazine by Polyamide Nanofiltration Membranes: Measurement, Modeling, and Mechanisms. Membranes, 2021, 11, 104.	3.0	5
94	Patient-Derived Xenograft Models for Intrahepatic Cholangiocarcinoma and Their Application in Guiding Personalized Medicine. Frontiers in Oncology, 2021, 11, 704042.	2.8	5
95	Detecting QTL and Candidate Genes for Plant Height in Soybean via Linkage Analysis and GWAS. Frontiers in Plant Science, 2021, 12, 803820.	3.6	5
96	Dynamic response of aluminum honeycomb sandwich panels subjected to hypervelocity impact by porous volcanic rock projectile. Journal of Mechanical Science and Technology, 2019, 33, 2605-2616.	1.5	4
97	Simultaneous bioimaging of MMP-2 and MMP-7 via Au-Se constructed fluorescence nanoprobe. Science China Chemistry, 2020, 63, 135-140.	8.2	4
98	A plug-and-play 3D hydrodynamic focusing Raman platform for label-free and dynamic single microparticle detection. Sensors and Actuators B: Chemical, 2022, 369, 132273.	7.8	4
99	Anomalous dielectric behaviors of electrolyte solutions confined in graphene oxide nanochannels. Scientific Reports, 2021, 11, 18689.	3.3	3
100	Se-modified gold nanorods for enhancing the efficiency of photothermal therapy: avoiding the off-target problem induced by biothiols. Journal of Materials Chemistry B, 2021, 9, 8832-8841.	5.8	3
101	Differential network analysis depicts regulatory mechanisms for hepatocellular carcinoma from diverse backgrounds. Future Oncology, 2019, 15, 3917-3934.	2.4	2
102	QTL for Main Stem Node Number and Its Response to Plant Densities in 144 Soybean FW-RILs. Frontiers in Plant Science, 2021, 12, 666796.	3.6	2
103	Biological Characteristics of Cell Similarity Measure. Advanced Intelligent Systems, 2022, 4, 2100093.	6.1	2
104	Acid-driven aggregation of selenol-functionalized zwitterionic gold nanoparticles improves the photothermal treatment efficacy of tumors. Materials Chemistry Frontiers, 2022, 6, 775-782.	5.9	2
105	ELECTRON-WITHDRAWING SUBSTITUTED BTD-BASED DERIVATIVE: ELECTRONIC AND OPTICAL PROPERTIES, CHARGE TRANSFER, STABILITY STUDY. Journal of Theoretical and Computational Chemistry, 2011, 10, 829-838.	1.8	1
106	Magnetic testing for inter-granular crack defect of tubing coupling. Nondestructive Testing and Evaluation, 2018, 33, 119-129.	2.1	1
107	Comparison of immune profiles between hepatocellular carcinoma subtypes. Biophysics Reports, 2020, 6, 19-32.	0.8	1
108	Reply to the â€˜Comment on â€œInvestigation of dielectric constants of water in a nano-confined poreâ€â€™ by S. Mondal and B. Bagchi, RSC Adv., 2020, 10, DOI: 10.1039/D0RA02726J. RSC Advances, 2021, 11, 5753-5754.	3.6	1

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109	Evaluation of Fatigue Damage in 304 Stainless Steel by Measuring Residual Magnetic Field. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	1
110	Dielectric Properties of Aqueous Electrolyte Solutions Confined in Silica Nanopore: Molecular Simulation vs. Continuum-Based Models. Membranes, 2022, 12, 220.	3.0	0