

Shuai Wang

List of Publications by Year in descending order

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118
papers

4,686
citations

136885

32
h-index

110317

64
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119
all docs

119
docs citations

119
times ranked

5536
citing authors

#	ARTICLE	IF	CITATIONS
1	Landscape of Intercellular Crosstalk in Healthy and NASH Liver Revealed by Single-Cell Secretome Gene Analysis. <i>Molecular Cell</i> , 2019, 75, 644-660.e5.	4.5	488
2	Enhancing learning and engagement through embodied interaction within a mixed reality simulation. <i>Computers and Education</i> , 2016, 95, 174-187.	5.1	313
3	Enumeration of the hydrogen-enhanced localized plasticity mechanism for hydrogen embrittlement in structural materials. <i>Acta Materialia</i> , 2019, 165, 734-750.	3.8	295
4	New Series of Blue-Emitting and Electron-Transporting Copolymers Based on Fluorene. <i>Macromolecules</i> , 2002, 35, 2529-2537.	2.2	235
5	Hydrogen-induced intergranular failure of iron. <i>Acta Materialia</i> , 2014, 69, 275-282.	3.8	204
6	Glycogen Synthase Kinase 3 β Regulates IRF3 Transcription Factor-Mediated Antiviral Response via Activation of the Kinase TBK1. <i>Immunity</i> , 2010, 33, 878-889.	6.6	154
7	Recent advances on hydrogen embrittlement of structural materials. <i>International Journal of Fracture</i> , 2015, 196, 223-243.	1.1	146
8	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. <i>Acta Materialia</i> , 2017, 126, 182-193.	3.8	133
9	LSm14A is a processing body-associated sensor of viral nucleic acids that initiates cellular antiviral response in the early phase of viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11770-11775.	3.3	129
10	The ER-Associated Protein ZDHHC1 Is a Positive Regulator of DNA Virus-Triggered, MITA/STING-Dependent Innate Immune Signaling. <i>Cell Host and Microbe</i> , 2014, 16, 450-461.	5.1	129
11	Mapping stocks of soil organic carbon and soil total nitrogen in Liaoning Province of China. <i>Geoderma</i> , 2017, 305, 250-263.	2.3	122
12	Effect of hydrogen environment on the separation of Fe grain boundaries. <i>Acta Materialia</i> , 2016, 107, 279-288.	3.8	106
13	Carbon-based sorbents: Carbon nanotubes. <i>Journal of Chromatography A</i> , 2014, 1357, 53-67.	1.8	99
14	Role of environmental variables in the spatial distribution of soil carbon (C), nitrogen (N), and C:N ratio from the northeastern coastal agroecosystems in China. <i>Ecological Indicators</i> , 2018, 84, 263-272.	2.6	93
15	Mapping the molecular signatures of diet-induced NASH and its regulation by the hepatokine Tsukushi. <i>Molecular Metabolism</i> , 2019, 20, 128-137.	3.0	86
16	Highly efficient photoelectrocatalytic reduction of CO ₂ on the Ti ₃ C ₂ /g-C ₃ N ₄ heterojunction with rich Ti ³⁺ and pyri-N species. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15213-15220.	5.2	85
17	Activation volume and density of mobile dislocations in hydrogen-charged iron. <i>Acta Materialia</i> , 2013, 61, 4734-4742.	3.8	66
18	WDFY1 mediates TLR signaling by recruiting TRIF. <i>EMBO Reports</i> , 2015, 16, 447-455.	2.0	65

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19	Influence of hydrogen on dislocation self-organization in Ni. <i>Acta Materialia</i> , 2017, 135, 96-102.	3.8	65
20	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. <i>Scripta Materialia</i> , 2016, 125, 5-9.	2.6	62
21	Uncoupling of PARP1 trapping and inhibition using selective PARP1 degradation. <i>Nature Chemical Biology</i> , 2019, 15, 1223-1231.	3.9	57
22	Attitudes toward science among grades 3 through 12 Arab students in Qatar: findings from a cross-sectional national study. <i>International Journal of Science Education</i> , 2016, 38, 621-643.	1.0	49
23	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. <i>CheM</i> , 2019, 5, 1235-1247.	5.8	45
24	Mapping total soil nitrogen from a site in northeastern China. <i>Catena</i> , 2018, 166, 134-146.	2.2	43
25	Effects of hydrogen on activation volume and density of mobile dislocations in iron-based alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 562, 101-108.	2.6	42
26	Preparation and applications of metal-organic framework derived porous carbons as novel adsorbents in sample preparation. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116093.	5.8	42
27	Spatial-Temporal Changes of Soil Organic Carbon Content in Wafangdian, China. <i>Sustainability</i> , 2016, 8, 1154.	1.6	41
28	Fingerprint quality control of <i>Angelica sinensis</i> (Oliv.) Diels by high-performance liquid chromatography coupled with discriminant analysis. <i>Talanta</i> , 2007, 72, 434-436.	2.9	40
29	Spatial variations of soil organic carbon stocks in a coastal hilly area of China. <i>Geoderma</i> , 2018, 314, 8-19.	2.3	39
30	STUB1 is essential for T _H 1 cell activation by ubiquitinating CARMA1. <i>European Journal of Immunology</i> , 2013, 43, 1034-1041.	1.6	37
31	When adaptive learning is effective learning: comparison of an adaptive learning system to teacher-led instruction. <i>Interactive Learning Environments</i> , 2023, 31, 793-803.	4.4	37
32	Magnetic mesoporous carbon nanosheets derived from two-dimensional bimetallic metal-organic frameworks for magnetic solid-phase extraction of nitroimidazole antibiotics. <i>Journal of Chromatography A</i> , 2021, 1645, 462074.	1.8	35
33	Synthesis of magnetic metal-organic framework composites, Fe ₃ O ₄ -NH ₂ @MOF-235, for the magnetic solid-phase extraction of benzoylurea insecticides from honey, fruit juice and tap water samples. <i>New Journal of Chemistry</i> , 2019, 43, 12563-12569.	1.4	34
34	Iron phthalocyanine-derived nanozyme as dual reactive oxygen species generation accelerator for photothermally enhanced tumor catalytic therapy. <i>Biomaterials</i> , 2022, 284, 121495.	5.7	34
35	Phthalocyanine Monolayer-Modified Gold Substrates as Efficient Anodes for Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12639-12642.	1.2	33
36	Effect of cultivation history on soil organic carbon status of arable land in northeastern China. <i>Geoderma</i> , 2019, 342, 55-64.	2.3	33

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37	A multilevel analysis of diverse learners playing life science video games: Interactions between game content, learning disability status, reading proficiency, and gender. <i>Journal of Research in Science Teaching</i> , 2016, 53, 324-345.	2.0	31
38	Synthesis and properties of crown ether containing poly(p-phenylenevinylene). <i>Journal of Materials Chemistry</i> , 2001, 11, 3063-3067.	6.7	29
39	Impacts of urbanization on soil organic carbon stocks in the northeast coastal agricultural areas of China. <i>Science of the Total Environment</i> , 2020, 721, 137814.	3.9	29
40	Development and Large-Scale Validation of an Instrument to Assess Arabic-Speaking Students' Attitudes Toward Science. <i>International Journal of Science Education</i> , 2015, 37, 2637-2663.	1.0	27
41	Predicting Soil Organic Carbon and Soil Nitrogen Stocks in Topsoil of Forest Ecosystems in Northeastern China Using Remote Sensing Data. <i>Remote Sensing</i> , 2020, 12, 1115.	1.8	27
42	Hydrogen-induced change in core structures of {110}[111] edge and {110}[111] screw dislocations in iron. <i>Scientific Reports</i> , 2013, 3, 2760.	1.6	26
43	Core-Shell Metal-Organic Frameworks as the Stationary Phase for Hydrophilic Interaction Liquid Chromatography. <i>ACS Applied Nano Materials</i> , 2020, 3, 351-356.	2.4	26
44	USP2a positively regulates TCR-induced NF- κ B activation by bridging MALT1-TRAF6. <i>Protein and Cell</i> , 2013, 4, 62-70.	4.8	25
45	Magnetic 3D hierarchical Ni/NiO@C nanorods derived from metal-organic frameworks for extraction of benzoylurea insecticides prior to HPLC-UV analysis. <i>Mikrochimica Acta</i> , 2020, 187, 88.	2.5	25
46	Spatial-Temporal Changes in Soil Organic Carbon and pH in the Liaoning Province of China: A Modeling Analysis Based on Observational Data. <i>Sustainability</i> , 2019, 11, 3569.	1.6	23
47	Effect of Nickel Contents on the Microstructure and Mechanical Properties for Low-Carbon Bainitic Weld Metals. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2057-2071.	1.2	22
48	A new strategy for the preparation of core-shell MOF/Polymer composite material as the mixed-mode stationary phase for hydrophilic interaction/ reversed-phase chromatography. <i>Analytica Chimica Acta</i> , 2021, 1143, 181-188.	2.6	22
49	Strain field of interstitial hydrogen atom in body-centered cubic iron and its effect on hydrogen-dislocation interaction. <i>Scripta Materialia</i> , 2013, 68, 249-252.	2.6	21
50	Metal-organic frameworks derived magnetic porous carbon for magnetic solid phase extraction of benzoylurea insecticides from tea sample by Box-Behnken statistical design. <i>Journal of Chromatography A</i> , 2020, 1626, 461328.	1.8	21
51	Microstructure, Mechanical Properties and Dry Sliding Wear Behavior of Cu-Al ₂ O ₃ -Graphite Solid-Lubricating Coatings Deposited by Low-Pressure Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 1652-1663.	1.6	20
52	The antioxidant mechanism of nitroxide TEMPO: scavenging with glutathionyl radicals. <i>RSC Advances</i> , 2015, 5, 63655-63661.	1.7	19
53	Assessment of the impact of hydrogen on the stress developed ahead of a fatigue crack. <i>Acta Materialia</i> , 2019, 174, 181-188.	3.8	19
54	Effect of Mo doping on the gaseous hydrogen embrittlement of a CoCrNi medium-entropy alloy. <i>Corrosion Science</i> , 2021, 189, 109628.	3.0	19

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55	Preparation of diamond-like carbon films by cathodic micro-arc discharge in aqueous solutions. <i>Thin Solid Films</i> , 2010, 518, 4211-4214.	0.8	18
56	Hydrogen effects on tensile property of pure iron with deformed surface. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 332-338.	2.6	18
57	Why the bully/victim relationship is so pernicious: A gendered perspective on power and animosity among bullies and their victims. <i>Development and Psychopathology</i> , 2014, 26, 689-704.	1.4	18
58	Solid-phase extraction of phenoxyacetic acid herbicides in complex samples with a zirconium(IV)-based metal-organic framework. <i>Journal of Separation Science</i> , 2019, 42, 2148-2154.	1.3	18
59	2D metal-organic framework nanosheets-assembled core-shell composite material as stationary phase for hydrophilic interaction liquid chromatography. <i>Talanta</i> , 2021, 222, 121603.	2.9	18
60	Evaluating the antioxidant capacity of polyphenols with an off-on fluorescence probe and the mechanism study. <i>Analytical Methods</i> , 2014, 6, 7149.	1.3	17
61	High efficiency and simple preparation of polyacrylamide coated silica stationary phase for hydrophilic interaction liquid chromatography. <i>Journal of Chromatography A</i> , 2019, 1605, 360357.	1.8	17
62	Protein Kinase C- γ Negatively Regulates T Cell Receptor-induced NF- κ B Activation by Inhibiting the Assembly of CARMA1 Signalosome. <i>Journal of Biological Chemistry</i> , 2012, 287, 20081-20087.	1.6	16
63	On the failure of surface damage to assess the hydrogen-enhanced deformation ahead of crack tip in a cyclically loaded austenitic stainless steel. <i>Scripta Materialia</i> , 2019, 166, 102-106.	2.6	16
64	Orientation dependence of dislocation structure in surface grain of pure copper deformed in tension. <i>Acta Materialia</i> , 2021, 203, 116474.	3.8	15
65	Spatial predictions of the permanent wilting point in arid and semi-arid regions of Northeast China. <i>Journal of Hydrology</i> , 2018, 564, 367-375.	2.3	14
66	Prediction of the spatial distribution of soil arthropods using a random forest model: A case study in Changtu County, Northeast China. <i>Agriculture, Ecosystems and Environment</i> , 2020, 292, 106818.	2.5	14
67	Title is missing!. <i>Journal of Materials Chemistry</i> , 2001, 11, 2971-2973.	6.7	13
68	Temporal and Spatial Changes of Soil Organic Carbon Stocks in the Forest Area of Northeastern China. <i>Forests</i> , 2019, 10, 1023.	0.9	13
69	Applying statistical methods to map soil organic carbon of agricultural lands in northeastern coastal areas of China. <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 532-544.	1.3	13
70	Preparation and evaluation of hydrophobically associating polyacrylamide coated silica composite as high performance liquid chromatographic stationary phase. <i>Microchemical Journal</i> , 2020, 152, 104330.	2.3	13
71	Embrittlement of 316L stainless steel in electropulsing treatment. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10669-10678.	2.6	13
72	Design and evaluation of novel MOF-polymer core-shell composite as mixed-mode stationary phase for high performance liquid chromatography. <i>Mikrochimica Acta</i> , 2021, 188, 76.	2.5	12

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73	Metal-organic framework-based core-shell composites for chromatographic stationary phases. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 149, 116545.	5.8	12
74	A facile process for the preparation of organic gel-assisted silica microsphere material for multi-mode liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1628, 461472.	1.8	11
75	A novel approach for the preparation of core-shell MOF/polymer composites as mixed-mode stationary phase. <i>Talanta</i> , 2021, 232, 122459.	2.9	11
76	Polyethylene glycol/graphene oxide coated solid-phase microextraction fiber for analysis of phenols and phthalate esters coupled with gas chromatography. <i>Journal of Separation Science</i> , 2015, 38, 2700-2707.	1.3	10
77	Direct preparation of a graphene oxide modified monolith in a glass syringe as a solid-phase extraction cartridge for the extraction of quaternary ammonium alkaloids from Chinese patent medicine. <i>Journal of Separation Science</i> , 2017, 40, 4411-4419.	1.3	10
78	An alternative approach for the preparation of a core-shell bimetallic central metal-organic framework as a hydrophilic interaction liquid chromatography stationary phase. <i>Analyst</i> , The, 2020, 145, 3851-3856.	1.7	10
79	Non-conjugated flexible network for the functional design of silica-based stationary phase for mixed-mode liquid chromatography. <i>Talanta</i> , 2021, 233, 122548.	2.9	10
80	Multispectral Remote Sensing Data Are Effective and Robust in Mapping Regional Forest Soil Organic Carbon Stocks in a Northeast Forest Region in China. <i>Remote Sensing</i> , 2020, 12, 393.	1.8	10
81	Mesoporous nanomaterial-assisted hydrogel double network composite for mixed-mode liquid chromatography. <i>Mikrochimica Acta</i> , 2021, 188, 433.	2.5	10
82	Determination of Luteolin and Quercetin in the Capsule of <i>Lamiophlomis Rotata</i> (Benth.) Kudo by HPLC Coupled with Weighted Least Squares Linear Regression. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 1991-1999.	0.5	9
83	Energy Time Series Data Analysis based on a Novel Integrated Data Characteristic Testing Approach. <i>Procedia Computer Science</i> , 2013, 17, 759-769.	1.2	9
84	High-Temperature Tribological Behavior of Al-20Si-5Fe-2Ni/ZrB ₂ Composites. <i>Tribology Transactions</i> , 2018, 61, 1107-1116.	1.1	9
85	Preparation of magnetic carbonized polyaniline nanotube and its adsorption behaviors of xanthene colorants in beverage and fish samples. <i>Journal of Chromatography A</i> , 2019, 1605, 460369.	1.8	9
86	Measuring Chinese Middle School Students'™ Motivation Using the Reduced Instructional Materials Motivation Survey (RIMMS): A Validation Study in the Adaptive Learning Setting. <i>Frontiers in Psychology</i> , 2020, 11, 1803.	1.1	9
87	An alternative strategy to construct uniform MOFs-Grafted silica core-shell composites as mixed-mode stationary phase for chromatography separation. <i>Analytica Chimica Acta</i> , 2021, 1183, 338942.	2.6	9
88	Physical properties of δ -Fe upon the introduction of H, He, C, and N. <i>Solid State Communications</i> , 2014, 195, 70-73.	0.9	8
89	A New Rhodamine-based Fluorescent Probe for the Detection of Singlet Oxygen. <i>Chemistry Letters</i> , 2015, 44, 244-246.	0.7	8
90	Adaptive Learning Goes to China. <i>Lecture Notes in Computer Science</i> , 2018, , 89-93.	1.0	8

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91	Comparing Likert Scale Functionality Across Culturally and Linguistically Diverse Groups in Science Education Research: an Illustration Using Qatari Students's™ Responses to an Attitude Toward Science Survey. <i>International Journal of Science and Mathematics Education</i> , 2019, 17, 885-903.	1.5	8
92	Encouraging impacts of an Open Education Resource Degree Initiative on college students's™ progress to degree. <i>Higher Education</i> , 2022, 84, 1089-1106.	2.8	7
93	Learning from an Adaptive Learning System: Student Profiling among Middle School Students. , 2019, , .		6
94	EEMD-LSSVR-Based Decomposition-and-Ensemble Methodology with Application to Nuclear Energy Consumption Forecasting. , 2011, , .		5
95	SD-LSSVR-Based Decomposition-and-Ensemble Methodology with Application to Hydropower Consumption Forecasting. , 2011, , .		5
96	A comparative characterization of defect structure in NiCo and NiFe equimolar solid solution alloys under in situ electron irradiation. <i>Scripta Materialia</i> , 2019, 166, 96-101.	2.6	5
97	The preparation of a core-shell stationary phase by the <i>in situ</i> polymerization of a hydrophilic polymer on the surface of silica and its chromatographic performance. <i>New Journal of Chemistry</i> , 2020, 44, 11704-11709.	1.4	5
98	Core-shell MOFs-based composites of defect-functionalized for mixed-mode chromatographic separation. <i>Journal of Chromatography A</i> , 2022, 1671, 463011.	1.8	5
99	Structure Prior Effects in Bayesian Approaches of Quantitative Susceptibility Mapping. <i>BioMed Research International</i> , 2016, 2016, 1-10.	0.9	4
100	Effects of urban sprawl on arthropod communities in peri-urban farmed landscape in Shenbei New District, Shenyang, Liaoning Province, China. <i>Scientific Reports</i> , 2018, 8, 101.	1.6	4
101	Blind restoration of solar images via the Channel Sharing Spatio-temporal Network. <i>Astronomy and Astrophysics</i> , 2021, 652, A50.	2.1	4
102	On the fracture process of intermediate temperature embrittlement of pure copper in electrical-assisted tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141979.	2.6	4
103	Fabrication of two-dimensional metal-organic framework nanosheets/PDA composites as mixed-mode stationary phase for chromatographic separation. <i>Mikrochimica Acta</i> , 2021, 188, 360.	2.5	4
104	A ratiometric fluorescent probe for detection of \hat{I}^3 -glutamyl transpeptidase in blood serum and living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121325.	2.0	4
105	Zinc sulfide nanosheets as a novel solid-phase extraction material for flavonoids. <i>Journal of Separation Science</i> , 2017, 40, 1403-1409.	1.3	3
106	Nanogold hybrid silica gel and its 1-octadecanethiol self-assembled modified composite as a stationary phase for liquid chromatography. <i>Analyst, The</i> , 2019, 144, 3072-3079.	1.7	3
107	Effect of dislocation pattern on the magnetic domain structure of pure polycrystalline Ni. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1896-1900.	2.6	3
108	Phase Transition of Mg during Hydrogenation of Mg-Nb ₂ O ₅ Evaporated Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17089-17093.	1.5	2

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109	Preparation of nanoporous array anodic titanium wire supported solid-phase microextraction fiber coated with a copolymerized polymerizable ionic liquid monomer pair. <i>Analytical Methods</i> , 2014, 6, 7875-7882.	1.3	2
110	The effects of the main components of seawater on the tribological properties of Cu-9Al-5Ni-4Fe-Mn alloy sliding against AISI 52100 steel. <i>RSC Advances</i> , 2016, 6, 6384-6394.	1.7	2
111	Examining discourse structures in Chinese and U.S. elementary mathematics classes. <i>International Journal of Educational Research</i> , 2020, 99, 101493.	1.2	2
112	Learning With Media. <i>Journal of Media Psychology</i> , 2019, 31, 128-136.	0.7	2
113	Identifying Gaps in Use of and Research on Adaptive Learning Systems. , 2020, , .		1
114	One-Step Solvothermal Synthesis of Sub-2-µm Sea Urchin-Like TiO ₂ Microspheres for High-Performance Liquid Chromatography Stationary Phase. <i>Chromatographia</i> , 2022, 85, 365-371.	0.7	1
115	Analysis of Carbide Precipitates in API X80 Medium-Thickness Plate. <i>Advanced Materials Research</i> , 2010, 146-147, 301-305.	0.3	0
116	Data, Mark of a New Era. <i>Lecture Notes in Educational Technology</i> , 2020, , 17-35.	0.5	0
117	Grid-Based Whole Trajectory Clustering in Road Networks Environment. <i>Wireless Communications and Mobile Computing</i> , 2021, 2021, 1-20.	0.8	0
118	An evaluation of a first-of-its-kind hybrid law degree program. <i>Journal of Computing in Higher Education</i> , 2022, , 1-28.	3.9	0