

# Wei Yang

## List of Publications by Year in descending order

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86  
papers

4,146  
citations

109321

35  
h-index

114465

63  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep carbon cycles constrained by a large-scale mantle Mg isotope anomaly in eastern China. National Science Review, 2017, 4, 111-120.	9.5	240
2	Geochronology and geochemistry of the Mesozoic volcanic rocks in Western Liaoning: Implications for lithospheric thinning of the North China Craton. Lithos, 2008, 102, 88-117.	1.4	237
3	Graphene-Co <sub>3</sub> O <sub>4</sub> nanocomposite as an efficient bifunctional catalyst for lithium-air batteries. Journal of Materials Chemistry A, 2014, 2, 7188-7196.	10.3	192
4	Magnesium isotopic systematics of continental basalts from the North China craton: Implications for tracing subducted carbonate in the mantle. Chemical Geology, 2012, 328, 185-194.	3.3	173
5	Wafer-Scale Highly Oriented Monolayer MoS <sub>2</sub> with Large Domain Sizes. Nano Letters, 2020, 20, 7193-7199.	9.1	160
6	Magnesium Isotopic Compositions of International Geological Reference Materials. Geostandards and Geoanalytical Research, 2015, 39, 329-339.	3.1	149
7	Chondritic magnesium isotopic composition of the terrestrial mantle: A case study of peridotite xenoliths from the North China craton. Earth and Planetary Science Letters, 2009, 288, 475-482.	4.4	142
8	Zinc isotope evidence for a large-scale carbonated mantle beneath eastern China. Earth and Planetary Science Letters, 2016, 444, 169-178.	4.4	140
9	Perovskite Sr <sub>0.95</sub> Ce <sub>0.05</sub> CoO <sub>3</sub> loaded with copper nanoparticles as a bifunctional catalyst for lithium-air batteries. Journal of Materials Chemistry, 2012, 22, 18902.	6.7	131
10	Copper isotopic composition of the silicate Earth. Earth and Planetary Science Letters, 2015, 427, 95-103.	4.4	127
11	Non-KREEP origin for Chang'e-5 basalts in the Procellarum KREEP Terrane. Nature, 2021, 600, 59-63.	27.8	124
12	Large magnesium isotope fractionation in peridotite xenoliths from eastern North China craton: Product of melt-rock interaction. Geochimica Et Cosmochimica Acta, 2013, 115, 241-261.	3.9	112
13	Recycling of deeply subducted continental crust in the Dabie Mountains, central China. Lithos, 2007, 96, 151-169.	1.4	111
14	Volcanic history of the Imbrium basin: A close-up view from the lunar rover Yutu. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5342-5347.	7.1	107
15	High-temperature inter-mineral magnesium isotope fractionation in mantle xenoliths from the North China craton. Earth and Planetary Science Letters, 2011, 308, 131-140.	4.4	104
16	Comparison of factors affecting the accuracy of high-precision magnesium isotope analysis by multi-collector inductively coupled plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 19-24.	1.5	96
17	Growth, Characterization, and Properties of Nanographene. Small, 2012, 8, 1429-1435.	10.0	88
18	A highly active, stable and synergistic Pt nanoparticles/Mo <sub>2</sub> C nanotube catalyst for methanol electro-oxidation. NPG Asia Materials, 2015, 7, e153-e153.	7.9	88

#	ARTICLE	IF	CITATIONS
19	Perovskite Sr <sub>1-x</sub> Ce <sub>x</sub> CoO <sub>3-<math>\delta</math></sub> (0.05 $\leq$ $\delta$ $\leq$ 0.15) as Superior Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 1143-1148.	8.0	87
20	New evidence for Cretaceous age of the feathered dinosaurs of Liaoning: zircon U-Pb SHRIMP dating of the Yixian Formation in Sihetun, northeast China. <i>Cretaceous Research</i> , 2007, 28, 177-182.	1.4	85
21	Magnesium isotope fractionation during shale weathering in the Shale Hills Critical Zone Observatory: Accumulation of light Mg isotopes in soils by clay mineral transformation. <i>Chemical Geology</i> , 2015, 397, 37-50.	3.3	77
22	Origin of low $\delta^{26}\text{Mg}$ basalts with EM-I component: Evidence for interaction between enriched lithosphere and carbonated asthenosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 93-105.	3.9	71
23	Improved precision and spatial resolution of sulfur isotope analysis using NanoSIMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1934-1943.	3.0	64
24	NanoSIMS analyses of apatite and melt inclusions in the GRV 020090 Martian meteorite: Hydrogen isotope evidence for recent past underground hydrothermal activity on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 321-333.	3.9	62
25	Lunar regolith and substructure at Chang <sup>TM</sup> E-4 landing site in South Pole <sup>AE</sup> Aitken basin. <i>Nature Astronomy</i> , 2021, 5, 25-30.	10.1	61
26	A Reliable All <sup>2D</sup> Materials Artificial Synapse for High Energy <sup>AE</sup> Efficient Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2011083.	14.9	53
27	Olivine-norite rock detected by the lunar rover Yutu-2 likely crystallized from the SPA-impact melt pool. <i>National Science Review</i> , 2020, 7, 913-920.	9.5	51
28	Heterogeneous magnesium isotopic composition of the lower continental crust: A xenolith perspective. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3844-3856.	2.5	50
29	Decoupling of surface and subsurface sutures in the Dabie orogen and a continent-collisional lithospheric-wedging model: Sr-Nd-Pb isotopic evidences of Mesozoic igneous rocks in eastern China. <i>Science Bulletin</i> , 2003, 48, 831-838.	1.7	48
30	Gate-tunable large-scale flexible monolayer MoS <sub>2</sub> devices for photodetectors and optoelectronic synapses. <i>Nano Research</i> , 2022, 15, 5418-5424.	10.4	48
31	A nephelinitic component with unusual $\delta^{56}\text{Fe}$ in Cenozoic basalts from eastern China and its implications for deep oxygen cycle. <i>Earth and Planetary Science Letters</i> , 2019, 512, 175-183.	4.4	47
32	NanoSIMS analysis of organic carbon from the Tissint Martian meteorite: Evidence for the past existence of subsurface organic <sup>AE</sup> bearing fluids on Mars. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2201-2218.	1.6	46
33	Magnesium isotopic composition of the deep continental crust. <i>American Mineralogist</i> , 2016, 101, 243-252.	1.9	42
34	Precise micrometre-sized Pb-Pb and U-Pb dating with NanoSIMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 479.	3.0	41
35	Extreme weather events recorded by daily to hourly resolution biogeochemical proxies of marine giant clam shells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7038-7043.	7.1	40
36	Low $\delta^{26}\text{Mg}$ volcanic rocks of Tengchong in Southwestern China: A deep carbon cycle induced by supercritical liquids. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 240, 191-219.	3.9	35

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37	Interlaboratory comparison of magnesium isotopic compositions of 12 felsic to ultramafic igneous rock standards analyzed by $^{26}\text{Mg}$ -CPMS. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3197-3209.	2.5	34
38	Magnetotransport Properties of Graphene Nanoribbons with Zigzag Edges. <i>Physical Review Letters</i> , 2018, 120, 216601.	7.8	28
39	In situ detection of water on the Moon by the Chang'e-5 lander. <i>Science Advances</i> , 2022, 8, eabl9174.	10.3	28
40	New Insight Into Lunar Regolith-Forming Processes by the Lunar Rover Yutu-2. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087949.	4.0	27
41	Measurements of water content and D/H ratio in apatite and silicate glasses using a NanoSIMS 50L. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 967-978.	3.0	25
42	Simultaneous determination of sulfur isotopes and trace elements in pyrite with a NanoSIMS 50L. <i>Analytical Methods</i> , 2017, 9, 6653-6661.	2.7	25
43	Insight into the Structure and Functional Application of the $\text{Sr}_{0.95}\text{Ce}_{0.05}\text{CoO}_3$ Cathode for Solid Oxide Fuel Cells. <i>Inorganic Chemistry</i> , 2015, 54, 3477-3484.	4.0	24
44	Ancient geologic events on Mars revealed by zircons and apatites from the Martian regolith breccia $\text{NWA}$ 7034. <i>Meteoritics and Planetary Science</i> , 2019, 54, 850-879.	1.6	24
45	The Effects of Viewing Geometry on the Spectral Analysis of Lunar Regolith as Inferred by <i>in situ</i> Spectrophotometric Measurements of Chang'e-4. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087080.	4.0	23
46	Phosphorus-controlled trace element distribution in zircon revealed by NanoSIMS. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	20
47	Vertical Integration of 2D Building Blocks for All-2D Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 2000550.	5.1	20
48	NanoSIMS analytical technique and its applications in earth sciences. <i>Science China Earth Sciences</i> , 2015, 58, 1758-1767.	5.2	19
49	High Activity of Nanoporous $0.2\text{Ce}_{0.8}\text{O}_{2-x}$ Composites for Hydrogen Electro-Oxidation in Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400883.	19.5	18
50	Could sedimentary carbonates be recycled into the lower mantle? Constraints from Mg isotopic composition of Emeishan basalts. <i>Lithos</i> , 2017, 292-293, 250-261.	1.4	18
51	Unveiling of active diazotrophs in a flooded rice soil by combination of NanoSIMS and $^{15}\text{N}_2$ -DNA-stable isotope probing. <i>Biology and Fertility of Soils</i> , 2020, 56, 1189-1199.	4.3	17
52	New Lunar Samples Returned by Chang'e-5: Opportunities for New Discoveries and International Collaboration. <i>Innovation(China)</i> , 2021, 2, 100070.	9.1	17
53	In Situ Photometric Experiment of Lunar Regolith With Visible and Near-Infrared Imaging Spectrometer On Board the Yutu-2 Lunar Rover. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006076.	3.6	16
54	Photometric properties of lunar regolith revealed by the Yutu-2 rover. <i>Astronomy and Astrophysics</i> , 2020, 638, A35.	5.1	14

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55	Magmatic chlorine isotope fractionation recorded in apatite from Chang'e-5 basalts. <i>Earth and Planetary Science Letters</i> , 2022, 591, 117636.	4.4	14
56	Titanium in olivine reveals low-Ti origin of the Chang'E-5 lunar basalts. <i>Lithos</i> , 2022, 414-415, 106639.	1.4	12
57	Greenhouse gas emissions from oilfield-produced water in Shengli Oilfield, Eastern China. <i>Journal of Environmental Sciences</i> , 2016, 46, 101-108.	6.1	11
58	Sub-micron trace elemental distributions and U-Pb dating of zircon from the oldest rock in the Anshan area, North China Craton. <i>Precambrian Research</i> , 2019, 322, 1-17.	2.7	11
59	Spatially indirect intervalley excitons in bilayer $WSe_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	11
60	Sintering nano-crystalline calcite: a new method of synthesizing homogeneous reference materials for SIMS analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1686.	3.0	10
61	NanoSIMS imaging method of zircon U-Pb dating. <i>Science China Earth Sciences</i> , 2016, 59, 2155-2164.	5.2	10
62	Approach to trace hidden paleo-weathering of basaltic crust through decoupled Mg Sr and Nd isotopes recorded in volcanic rocks. <i>Chemical Geology</i> , 2019, 509, 234-248.	3.3	10
63	Thermal Modeling of the Lunar Regolith at the Chang'E-4 Landing Site. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091687.	4.0	10
64	Interlayer exciton complexes in bilayer $MoS_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	10
65	NanoSIMS measurements of trace elements at the micron scale interface between zircon and silicate glass. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2399-2409.	3.0	9
66	Submicron spatial resolution $Pb-Pb$ and $U-Pb$ dating by using a NanoSIMS equipped with the new radio-frequency ion source. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1625-1633.	3.0	9
67	Melt-peridotite interaction in the shallow lithospheric mantle of the North China Craton: evidence from melt inclusions in the quartz-bearing orthopyroxene-rich websterite from Hannuoba. <i>International Geology Review</i> , 2014, 56, 448-472.	2.1	8
68	Micro-scale ( $\sim 10^{1/4}m$ ) analyses of rare earth elements in silicate glass, zircon and apatite with NanoSIMS. <i>International Journal of Mass Spectrometry</i> , 2016, 406, 48-54.	1.5	7
69	Volatiles in the martian crust and mantle: Clues from the NWA 6162 shergottite. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115902.	4.4	7
70	High-order minibands and interband Landau level reconstruction in graphene moiré superlattices. <i>Physical Review B</i> , 2020, 102, .	3.2	7
71	Concepts of the Small Body Sample Return Missions - the 1st 10 Million Year Evolution of the Solar System. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	7
72	Observation of logarithmic Kohn anomaly in monolayer graphene. <i>Physical Review B</i> , 2020, 102, .	3.2	6

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73	Deuterium and <sup>37</sup> Chlorine Rich Fluids on the Surface of Mars: Evidence From the Enriched Basaltic Shergottite Northwest Africa 8657. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006537.	3.6	6
74	Estimation of Noise in the In Situ Hyperspectral Data Acquired by Chang'E-4 and Its Effects on Spectral Analysis of Regolith. <i>Remote Sensing</i> , 2020, 12, 1603.	4.0	6
75	Chang'E-5 samples reveal two-billion-year-old volcanic activity on the Moon and its source characteristics. <i>Science China Earth Sciences</i> , 2021, 64, 2083-2089.	5.2	6
76	Enhanced critical field and anomalous metallic state in two-dimensional centrosymmetric $W_{1-x}S_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	6
77	Greenhouse Gases (GHG) Emissions from Gas Field Water in Southern Gas Field, Sichuan Basin, China. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	5
78	Magnesium and Lithium Isotopic Evidence for a Remnant Oceanic Slab Beneath Central Tibet. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018197.	3.4	5
79	NanoSIMS measurements of sub-micrometer particles using the local thresholding technique. <i>Surface and Interface Analysis</i> , 2020, 52, 234-239.	1.8	5
80	NanoSIMS image enhancement by reducing random noise using low-rank method. <i>Surface and Interface Analysis</i> , 2020, 52, 240-248.	1.8	3
81	Artificial Synapses: A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing ( <i>Adv. Funct. Mater.</i> 27/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170197.	14.9	2
82	Lunar Terrestrial Analog Experiment on the Spectral Interpretations of Rocks Observed by the Yutu-2 Rover. <i>Remote Sensing</i> , 2022, 14, 2323.	4.0	2
83	Large Mg Fe isotope fractionation in volcanic rocks from northeast China: The role of chemical weathering and magma compositional effect. <i>Chemical Geology</i> , 2021, 565, 120075.	3.3	1
84	Abundant presolar silicates of the CM chondrite Asuka 12169: Implications for the thermal and aqueous alteration of the CM parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 334, 45-64.	3.9	1
85	Hot-Pressed Two-Dimensional Amorphous Metals and Their Electronic Properties. <i>Crystals</i> , 2022, 12, 616.	2.2	0
86	Comparative Research on Ventilation Characteristics of Scattering and Sample Room from Chinese Spallation Neutron Source. <i>Energies</i> , 2022, 15, 4001.	3.1	0