

# 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	In situ detection of water on the Moon by the Chang'e-5 lander. <i>Science Advances</i> , 2022, 8, eabl9174.	10.3	28
2	Spatially indirect intervalley excitons in bilayer $WSe_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	11
3	Interlayer exciton complexes in bilayer $MoS_2$ . <i>Physical Review B</i> , 2022, 105, .	3.2	6
4	Gate-tunable large-scale flexible monolayer $MoS_2$ devices for photodetectors and optoelectronic synapses. <i>Nano Research</i> , 2022, 15, 5418-5424.	10.4	48
5	Enhanced critical field and anomalous metallic state in two-dimensional centrosymmetric $TdS$ . <i>Physical Review B</i> , 2022, 105, .	3.2	6
6	Titanium in olivine reveals low-Ti origin of the Chang'e-5 lunar basalts. <i>Lithos</i> , 2022, 414-415, 106639.	1.4	12
7	Hot-Pressed Two-Dimensional Amorphous Metals and Their Electronic Properties. <i>Crystals</i> , 2022, 12, 616.	2.2	0
8	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
9	Comparative Research on Ventilation Characteristics of Scattering and Sample Room from Chinese Spallation Neutron Source. <i>Energies</i> , 2022, 15, 4001.	3.1	0
10	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
11	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
12	Lunar regolith and substructure at Chang'e-4 landing site in South Pole-Aitken basin. <i>Nature Astronomy</i> , 2021, 5, 25-30.	10.1	61
13	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
14	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
15	A Reliable All-2D Materials Artificial Synapse for High Energy-Efficient Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2021, 31, 2011083.	14.9	53
16	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
17	Thermal Modeling of the Lunar Regolith at the Chang'e-4 Landing Site. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091687.	4.0	10
18	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

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19	Non-KREEP origin for Chang'e-5 basalts in the Procellarum KREEP Terrane. <i>Nature</i> , 2021, 600, 59-63.	27.8	124
20	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
21	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
22	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
23	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
24	NanoSIMS measurements of sub-micrometer particles using the local thresholding technique. <i>Surface and Interface Analysis</i> , 2020, 52, 234-239.	1.8	5
25	Vertical Integration of 2D Building Blocks for All-2D Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 2000550.	5.1	20
26	Observation of logarithmic Kohn anomaly in monolayer graphene. <i>Physical Review B</i> , 2020, 102, .	3.2	6
27	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
28	Wafer-Scale Highly Oriented Monolayer MoS <sub>2</sub> with Large Domain Sizes. <i>Nano Letters</i> , 2020, 20, 7193-7199.	9.1	160
29	Unveiling of active diazotrophs in a flooded rice soil by combination of NanoSIMS and <sup>15</sup> N <sub>2</sub> -DNA-stable isotope probing. <i>Biology and Fertility of Soils</i> , 2020, 56, 1189-1199.	4.3	17
30	Photometric properties of lunar regolith revealed by the Yutu-2 rover. <i>Astronomy and Astrophysics</i> , 2020, 638, A35.	5.1	14
31	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
32	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
33	High-order minibands and interband Landau level reconstruction in graphene moiré superlattices. <i>Physical Review B</i> , 2020, 102, .	3.2	7
34	New Insight Into Lunar Regolith-Forming Processes by the Lunar Rover Yutu-2. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087949.	4.0	27
35	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
36	NanoSIMS image enhancement by reducing random noise using low-rank method. <i>Surface and Interface Analysis</i> , 2020, 52, 240-248.	1.8	3

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37	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
38	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
39	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
40	Ancient geologic events on Mars revealed by zircons and apatites from the Martian regolith breccia <sc>NWA</sc> 7034. <i>Meteoritics and Planetary Science</i> , 2019, 54, 850-879.	1.6	24
41	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
42	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
43	Magnetotransport Properties of Graphene Nanoribbons with Zigzag Edges. <i>Physical Review Letters</i> , 2018, 120, 216601.	7.8	28
44	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
45	Deep carbon cycles constrained by a large-scale mantle Mg isotope anomaly in eastern China. <i>National Science Review</i> , 2017, 4, 111-120.	9.5	240
46	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
47	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
48	Zinc isotope evidence for a large-scale carbonated mantle beneath eastern China. <i>Earth and Planetary Science Letters</i> , 2016, 444, 169-178.	4.4	140
49	Micro-scale ( $\sim 1/4$ to $1/4\mu\text{m}$ ) 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
50	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
51	NanoSIMS imaging method of zircon U-Pb dating. <i>Science China Earth Sciences</i> , 2016, 59, 2155-2164.	5.2	10
52	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
53	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
54	Magnesium isotopic composition of the deep continental crust. <i>American Mineralogist</i> , 2016, 101, 243-252.	1.9	42

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55	Phosphorus-controlled trace element distribution in zircon revealed by NanoSIMS. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	20
56	Interlaboratory comparison of magnesium isotopic compositions of 12 felsic to ultramafic igneous rock standards analyzed by $MCa-CPMS$ . Geochemistry, Geophysics, Geosystems, 2015, 16, 3197-3209.	2.5	34
57	NanoSIMS analytical technique and its applications in earth sciences. Science China Earth Sciences, 2015, 58, 1758-1767.	5.2	19
58	Magnesium isotope fractionation during shale weathering in the Shale Hills Critical Zone Observatory: Accumulation of light Mg isotopes in soils by clay mineral transformation. Chemical Geology, 2015, 397, 37-50.	3.3	77
59	Insight into the Structure and Functional Application of the $Sr_{0.95}Ce_{0.05}CoO_{3-\delta}$ Cathode for Solid Oxide Fuel Cells. Inorganic Chemistry, 2015, 54, 3477-3484.	4.0	24
60	Magnesium Isotopic Compositions of International Geological Reference Materials. Geostandards and Geoanalytical Research, 2015, 39, 329-339.	3.1	149
61	Copper isotopic composition of the silicate Earth. Earth and Planetary Science Letters, 2015, 427, 95-103.	4.4	127
62	Measurements of water content and D/H ratio in apatite and silicate glasses using a NanoSIMS 50L. Journal of Analytical Atomic Spectrometry, 2015, 30, 967-978.	3.0	25
63	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
64	A highly active, stable and synergistic Pt nanoparticles/Mo <sub>2</sub> C nanotube catalyst for methanol electro-oxidation. NPC Asia Materials, 2015, 7, e153-e153.	7.9	88
65	NanoSIMS analysis of organic carbon from the Tissint Martian meteorite: Evidence for the past existence of subsurface organic-bearing fluids on Mars. Meteoritics and Planetary Science, 2014, 49, 2201-2218.	1.6	46
66	Graphene-C <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
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. International Geology Review, 2014, 56, 448-472.	2.1	8
68	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
69	Improved precision and spatial resolution of sulfur isotope analysis using NanoSIMS. Journal of Analytical Atomic Spectrometry, 2014, 29, 1934-1943.	3.0	64
70	Sintering nano-crystalline calcite: a new method of synthesizing homogeneous reference materials for SIMS analysis. Journal of Analytical Atomic Spectrometry, 2014, 29, 1686.	3.0	10
71	High Activity of Nanoporous $Sm_{0.2}Ce_{0.8}O_{2-\delta}$ @430L Composites for Hydrogen Electro-Oxidation in Solid Oxide Fuel Cells. Advanced Energy Materials, 2014, 4, 1400883.	19.5	18
72	Greenhouse Gases (GHG) Emissions from Gas Field Water in Southern Gas Field, Sichuan Basin, China. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	5

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73	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
74	Large magnesium isotope fractionation in peridotite xenoliths from eastern North China craton: Product of melt-rock interaction. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 115, 241-261.	3.9	112
75	Perovskite Sr <sub>1-x</sub> Ce <sub>x</sub> CoO <sub>3-δ</sub> (0.05 ≤ x ≤ 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
76	Heterogeneous magnesium isotopic composition of the lower continental crust: A xenolith perspective. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3844-3856.	2.5	50
77	Magnesium isotopic systematics of continental basalts from the North China craton: Implications for tracing subducted carbonate in the mantle. <i>Chemical Geology</i> , 2012, 328, 185-194.	3.3	173
78	Precise micrometre-sized Pb-Pb and U-Pb dating with NanoSIMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 479.	3.0	41
79	Growth, Characterization, and Properties of Nanographene. <i>Small</i> , 2012, 8, 1429-1435.	10.0	88
80	Perovskite Sr <sub>0.95</sub> Ce <sub>0.05</sub> CoO <sub>3-δ</sub> loaded with copper nanoparticles as a bifunctional catalyst for lithium-air batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 18902.	6.7	131
81	High-temperature inter-mineral magnesium isotope fractionation in mantle xenoliths from the North China craton. <i>Earth and Planetary Science Letters</i> , 2011, 308, 131-140.	4.4	104
82	Chondritic magnesium isotopic composition of the terrestrial mantle: A case study of peridotite xenoliths from the North China craton. <i>Earth and Planetary Science Letters</i> , 2009, 288, 475-482.	4.4	142
83	Geochronology and geochemistry of the Mesozoic volcanic rocks in Western Liaoning: Implications for lithospheric thinning of the North China Craton. <i>Lithos</i> , 2008, 102, 88-117.	1.4	237
84	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
85	Recycling of deeply subducted continental crust in the Dabie Mountains, central China. <i>Lithos</i> , 2007, 96, 151-169.	1.4	111
86	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