

# Longjian Xie

## List of Publications by Year in descending order

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14  
papers

129  
citations

1307594

7  
h-index

1199594

12  
g-index

15  
all docs

15  
docs citations

15  
times ranked

141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of bridgmanite-enriched layer at the top lower-mantle during magma ocean solidification. <i>Nature Communications</i> , 2020, 11, 548.	12.8	26
2	Synthesis of boron-doped diamond and its application as a heating material in a multi-anvil high-pressure apparatus. <i>Review of Scientific Instruments</i> , 2017, 88, 093904.	1.3	23
3	Graphite–boron composite heater in a Kawai-type apparatus: the inhibitory effect of boron oxide and countermeasures. <i>High Pressure Research</i> , 2016, 36, 105-120.	1.2	14
4	Single crystal elasticity of gold up to $\sim 1420$ GPa: Bulk modulus anomaly and implication for a primary pressure scale. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 095801.	1.5	14
5	Semiconductor diamond heater in the Kawai multi-anvil apparatus: an innovation to generate the lower mantle geotherm. <i>High Pressure Research</i> , 2014, 34, 392-403.	1.2	9
6	Boron-doped diamond as a new heating element for internal-resistive heated diamond-anvil cell. <i>High Pressure Research</i> , 2018, 38, 120-135.	1.2	8
7	Thermal expansion of liquid Fe-S alloy at high pressure. <i>Earth and Planetary Science Letters</i> , 2021, 563, 116884.	4.4	8
8	Direct Viscosity Measurement of Peridotite Melt to Lower-Mantle Conditions: A Further Support for a Fractional Magma-Ocean Solidification at the Top of the Lower Mantle. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094507.	4.0	7
9	Boron-doped diamond synthesized by chemical vapor deposition as a heating element in a multi-anvil apparatus. <i>High Pressure Research</i> , 2020, 40, 369-378.	1.2	6
10	A strip-type boron-doped diamond heater synthesized by chemical vapor deposition for large-volume presses. <i>Review of Scientific Instruments</i> , 2020, 91, 095108.	1.3	5
11	Boron–MgO composite as an X-ray transparent pressure medium in the multi-anvil apparatus. <i>Review of Scientific Instruments</i> , 2020, 91, 043903.	1.3	3
12	Simultaneous generation of ultrahigh pressure and temperature to 50 GPa and 3300 K in multi-anvil apparatus. <i>Review of Scientific Instruments</i> , 2021, 92, 103902.	1.3	3
13	TiC-MgO composite: an X-ray transparent and machinable heating element in a multi-anvil high pressure apparatus. <i>High Pressure Research</i> , 2020, 40, 257-266.	1.2	2
14	Machinable boron-doped diamond as a practical heating element in multi-anvil apparatuses. <i>Review of Scientific Instruments</i> , 2021, 92, 023901.	1.3	1