Longjian Xie

List of Publications by Year
in descending order

14 papers	129 citations	1306789 7 h-index	1281420 11 g-index
15 all docs	15 docs citations	15 times ranked	141 citing authors

#	Article	IF	Citations
1	Machinable boron-doped diamond as a practical heating element in multi-anvil apparatuses. Review of Scientific Instruments, 2021, 92, 023901.	0.6	1
2	Thermal expansion of liquid Fe-S alloy at high pressure. Earth and Planetary Science Letters, 2021, 563, 116884.	1.8	8
3	Direct Viscosity Measurement of Peridotite Melt to Lowerâ€Mantle Conditions: A Further Support for a Fractional Magmaâ€Ocean Solidification at the Top of the Lower Mantle. Geophysical Research Letters, 2021, 48, e2021GL094507.	1.5	7
4	Simultaneous generation of ultrahigh pressure and temperature to 50ÂGPa and 3300ÂK in multi-anvil apparatus. Review of Scientific Instruments, 2021, 92, 103902.	0.6	3
5	Boron-doped diamond synthesized by chemical vapor deposition as a heating element in a multi-anvil apparatus. High Pressure Research, 2020, 40, 369-378.	0.4	6
6	A strip-type boron-doped diamond heater synthesized by chemical vapor deposition for large-volume presses. Review of Scientific Instruments, 2020, 91, 095108.	0.6	5
7	Formation of bridgmanite-enriched layer at the top lower-mantle during magma ocean solidification. Nature Communications, 2020, 11, 548.	5.8	26
8	TiC-MgO composite: an X-ray transparent and machinable heating element in a multi-anvil high pressure apparatus. High Pressure Research, 2020, 40, 257-266.	0.4	2
9	Boronâ€“MgO composite as an X-ray transparent pressure medium in the multi-anvil apparatus. Review of Scientific Instruments, 2020, 91, 043903.	0.6	3
10	Boron-doped diamond as a new heating element for internal-resistive heated diamond-anvil cell. High Pressure Research, 2018, 38, 120-135.	0.4	8
11	Synthesis of boron-doped diamond and its application as a heating material in a multi-anvil high-pressure apparatus. Review of Scientific Instruments, 2017, 88, 093904.	0.6	23
12	Single crystal elasticity of gold up to â¼20 GPa: Bulk modulus anomaly and implication for a primary pressure scale. Japanese Journal of Applied Physics, 2017, 56, 095801.	0.8	14
13	Graphiteâ€“boron composite heater in a Kawai-type apparatus: the inhibitory effect of boron oxide and countermeasures. High Pressure Research, 2016, 36, 105-120.	0.4	14
14	Semiconductor diamond heater in the Kawai multianvil apparatus: an innovation to generate the lower mantle geotherm. High Pressure Research, 2014, 34, 392-403.	0.4	9