

Lukas Porz

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,562
citations

686830

13
h-index

676716

22
g-index

23
all docs

23
docs citations

23
times ranked

1908
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature dislocation plasticity in SrTiO ₃ tuned by defect chemistry. Journal of the American Ceramic Society, 2022, 105, 1318-1329.	1.9	14
2	High-temperature plastic deformation of $\langle 110 \rangle$ -oriented BaTiO ₃ single crystals. Journal of Materials Research, 2022, 37, 737-746.	1.2	6
3	Blacklight sintering of ceramics. Materials Horizons, 2022, 9, 1717-1726.	6.4	15
4	60 years of dislocations in ceramics: A conceptual framework for dislocation mechanics in ceramics. International Journal of Ceramic Engineering & Science, 2022, 4, 214-239.	0.5	6
5	Enhanced Photoconductivity at Dislocations in SrTiO ₃ . Advanced Materials, 2022, 34, .	11.1	11
6	Conceptual Framework for Dislocation-Modified Conductivity in Oxide Ceramics Deconvoluting Mesoscopic Structure, Core, and Space Charge Exemplified for SrTiO ₃ . ACS Nano, 2021, 15, 9355-9367.	7.3	41
7	Dislocation-toughened ceramics. Materials Horizons, 2021, 8, 1528-1537.	6.4	56
8	Dislocations in ceramic electrolytes for solid-state Li batteries. Scientific Reports, 2021, 11, 8949.	1.6	14
9	Nanoindentation pop-in in oxides at room temperature: Dislocation activation or crack formation?. Journal of the American Ceramic Society, 2021, 104, 4728-4741.	1.9	28
10	Large plastic deformability of bulk ferroelectric KNbO ₃ single crystals. Journal of the European Ceramic Society, 2021, 41, 4098-4107.	2.8	17
11	Quantitative mapping of nanotwin variants in the bulk. Scripta Materialia, 2021, 199, 113878.	2.6	10
12	Donor and acceptor-like self-doping by mechanically induced dislocations in bulk TiO ₂ . Nano Energy, 2021, 85, 105944.	8.2	31
13	High temperature creep-mediated functionality in polycrystalline barium titanate. Journal of the American Ceramic Society, 2020, 103, 1891-1902.	1.9	26
14	Influence of dislocations on thermal conductivity of strontium titanate. Applied Physics Letters, 2020, 117, .	1.5	32
15	Bridging the Gap between Bulk Compression and Indentation Test on Room-Temperature Plasticity in Oxides: Case Study on SrTiO ₃ . Crystals, 2020, 10, 933.	1.0	19
16	Mapping of individual dislocations with dark-field X-ray microscopy. Journal of Applied Crystallography, 2019, 52, 122-132.	1.9	39
17	Lithium Metal Penetration Induced by Electrodeposition through Solid Electrolytes: Example in Single-Crystal Li ₆ La ₃ ZrTaO ₁₂ Garnet. Journal of the Electrochemical Society, 2018, 165, A3648-A3655.	1.3	172
18	Compliant Yet Brittle Mechanical Behavior of Li ₂ S-P ₂ S ₅ Lithium-Ion-Conducting Solid Electrolyte. Advanced Energy Materials, 2017, 7, 1602011.	10.2	219

#	ARTICLE	IF	CITATIONS
19	Low-profile self-sealing sample transfer flexure box. Review of Scientific Instruments, 2017, 88, 083705.	0.6	4
20	Mechanism of Lithium Metal Penetration through Inorganic Solid Electrolytes. Advanced Energy Materials, 2017, 7, 1701003.	10.2	780
21	Characterizing Brittle Fracture by Modeling Crack Deflection Angles from the Microstructure. Journal of the American Ceramic Society, 2015, 98, 3690-3698.	1.9	12
22	Crack propagation in silicon nitride ceramics under various temperatures and grain boundary toughness. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 632, 58-61.	2.6	10