

Russell A Maier

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

425
citations

759233

12
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved reliability predictions in high permittivity dielectric oxide capacitors under high dc electric fields with oxygen vacancy induced electromigration. Journal of Applied Physics, 2013, 113, .	2.5	54
2	Low Temperature Ionic Conductivity of an Acceptor-Doped Perovskite: I. Impedance of Single-Crystal SrTiO ₃ . Journal of the American Ceramic Society, 2016, 99, 3350-3359.	3.8	44
3	Development of a 5.4 kV laser triggered gas switch for multimodule, multimegampere pulsed power drivers. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	42
4	Approaches for the quantitative analysis of oxidation state in cerium oxide nanomaterials. Nanotechnology, 2019, 30, 085703.	2.6	42
5	Acceptor-oxygen vacancy defect dipoles and fully coordinated defect centers in a ferroelectric perovskite lattice: Electron paramagnetic resonance analysis of Mn ²⁺ in single crystal BaTiO ₃ . Journal of Applied Physics, 2015, 118, .	2.5	40
6	Low Temperature Ionic Conductivity of an Acceptor-Doped Perovskite: II. Impedance of Single-Crystal BaTiO ₃ . Journal of the American Ceramic Society, 2016, 99, 3360-3366.	3.8	29
7	(Magic Dopant) Amphoteric Behavior of a Redox-Active Transition Metal Ion in a Perovskite Lattice: New Insights on the Lattice Site Occupation of Manganese in SrTiO ₃ . Advanced Functional Materials, 2016, 26, 8325-8333.	14.9	24
8	Formation of structural defects and strain in electrodegraded Fe-doped SrTiO ₃ crystals due to oxygen vacancy migration. Journal of the American Ceramic Society, 2018, 101, 2545-2561.	3.8	21
9	Processing issues related to the bi-dimensional ionic conductivity of BIMEVOX ceramics. Journal of Materials Science, 2011, 46, 5447-5453.	3.7	19
10	Displacive Order-Disorder Behavior and Intrinsic Clustering of Lattice Distortions in Bi-Substituted NaNbO ₃ . Advanced Functional Materials, 2020, 30, 2001840.	14.9	19
11	Scalable microresonators for room-temperature detection of electron spin resonance from dilute, sub-nanoliter volume solids. Science Advances, 2020, 6, .	10.3	17
12	Substitutional Mechanisms and Structural Relaxations for Manganese in SrTiO ₃ : Bridging the Concentration Gap for Point-Defect Metrology. Chemistry of Materials, 2020, 32, 4651-4662.	6.7	16
13	Observation of structural inhomogeneity at degraded Fe-doped SrTiO ₃ interfaces. Applied Physics Letters, 2016, 109, 031602.	3.3	12
14	In situ characterization of ceramic cold sintering by small-angle scattering. Journal of the American Ceramic Society, 2021, 104, 2442-2448.	3.8	10
15	Investigation of Electric Field-Induced Structural Changes at Fe-Doped SrTiO ₃ Anode Interfaces by Second Harmonic Generation. Materials, 2016, 9, 883.	2.9	9
16	A charge-based deep level transient spectroscopy measurement system and characterization of a ZnO-based varistor and a Fe-doped SrTiO ₃ dielectric. Japanese Journal of Applied Physics, 2016, 55, 026601.	1.5	9
17	Effects of octahedral tilting on the site of substitution of manganese in CaTiO ₃ . Acta Materialia, 2021, 207, 116688.	7.9	9
18	Modeling and characterization of dielectrophoretically structured piezoelectric composites using piezoceramic particle inclusions with high aspect ratios. Journal of Applied Physics, 2013, 113, 034103.	2.5	4

#	ARTICLE	IF	CITATIONS
19	The mediation of bond strain by vacancies and displacive disorder in A-site-deficient perovskites. <i>Acta Materialia</i> , 2021, 207, 116678.	7.9	4
20	Effects of Octahedral Tilting on the Site of Substitution of Manganese in CaTiO ₃ . <i>SSRN Electronic Journal</i> , 0, , .	0.4	1