

Isao Tanaka

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412
papers

19,886
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57
h-index

133
g-index

424
ext. papers

23,655
ext. citations

3.7
avg, IF

7.44
L-index

#	Paper	IF	Citations
412	First principles phonon calculations in materials science. <i>Scripta Materialia</i> , 2015 , 108, 1-5	5.6	4076
411	First-principles calculations of the ferroelastic transition between rutile-type and CaCl ₂ -type SiO ₂ at high pressures. <i>Physical Review B</i> , 2008 , 78,	3.3	3593
410	High-density electron anions in a nanoporous single crystal: [Ca ₂₄ Al ₂₈ O ₆₄] ₄₊ (4e ⁻). <i>Science</i> , 2003 , 301, 626-9	33.3	638
409	Distributions of phonon lifetimes in Brillouin zones. <i>Physical Review B</i> , 2015 , 91,	3.3	607
408	First-principles phonon calculations of thermal expansion in Ti ₃ SiC ₂ , Ti ₃ AlC ₂ , and Ti ₃ GeC ₂ . <i>Physical Review B</i> , 2010 , 81,	3.3	309
407	Prediction of Low-Thermal-Conductivity Compounds with First-Principles Anharmonic Lattice-Dynamics Calculations and Bayesian Optimization. <i>Physical Review Letters</i> , 2015 , 115, 205901	7.4	275
406	Band structure diagram paths based on crystallography. <i>Computational Materials Science</i> , 2017 , 128, 140-184	3.2	247
405	Phonon-phonon interactions in transition metals. <i>Physical Review B</i> , 2011 , 84,	3.3	235
404	Point defects in ZnO: an approach from first principles. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 034302	7.1	234
403	Lithium iron borates as high-capacity battery electrodes. <i>Advanced Materials</i> , 2010 , 22, 3583-7	24	204
402	Machine learning with systematic density-functional theory calculations: Application to melting temperatures of single- and binary-component solids. <i>Physical Review B</i> , 2014 , 89,	3.3	179
401	Prediction model of band gap for inorganic compounds by combination of density functional theory calculations and machine learning techniques. <i>Physical Review B</i> , 2016 , 93,	3.3	178
400	Thermal physics of the lead chalcogenides PbS, PbSe, and PbTe from first principles. <i>Physical Review B</i> , 2014 , 89,	3.3	172
399	First-principles approach to chemical diffusion of lithium atoms in a graphite intercalation compound. <i>Physical Review B</i> , 2008 , 78,	3.3	160
398	Representation of compounds for machine-learning prediction of physical properties. <i>Physical Review B</i> , 2017 , 95,	3.3	158
397	First-principles calculations of ELNES and XANES of selected wide-gap materials: Dependence on crystal structure and orientation. <i>Physical Review B</i> , 2004 , 70,	3.3	148
396	Accelerated Materials Design of Lithium Superionic Conductors Based on First-Principles Calculations and Machine Learning Algorithms. <i>Advanced Energy Materials</i> , 2013 , 3, 980-985	21.8	139

395	First-principles study on lithium removal from Li_2MnO_3 . <i>Journal of Power Sources</i> , 2009 , 189, 798-801	8.9	136
394	Discovery of earth-abundant nitride semiconductors by computational screening and high-pressure synthesis. <i>Nature Communications</i> , 2016 , 7, 11962	17.4	133
393	Pure H^+ conduction in oxyhydrides. <i>Science</i> , 2016 , 351, 1314-7	33.3	110
392	Defect Chemistry in Layered LiMO_2 ($M = \text{Co, Ni, Mn, and Li}_{1/3}\text{Mn}_{2/3}$) by First-Principles Calculations. <i>Chemistry of Materials</i> , 2012 , 24, 3886-3894	9.6	110
391	Soft longitudinal modes in spin-singlet CuGeO_3 . <i>Physical Review B</i> , 1994 , 50, 1278-1281	3.3	109
390	Broadening Mechanism of Resistive Transition under Magnetic Field in Single Crystalline $(\text{La}_{1-x}\text{Sr}_x)_2\text{CuO}_4$. <i>Japanese Journal of Applied Physics</i> , 1989 , 28, L555-L556	1.4	109
389	XANES and ELNES in Ceramic Science. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2013-2029	3.8	104
388	Design and synthesis of a magnesium alloy for room temperature hydrogen storage. <i>Acta Materialia</i> , 2018 , 149, 88-96	8.4	101
387	Decomposition reactions for NaAlH_4 , Na_3AlH_6 , and NaH : First-principles study. <i>Physical Review B</i> , 2005 , 71,	3.3	93
386	Cluster expansion method for multicomponent systems based on optimal selection of structures for density-functional theory calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	92
385	Theoretical Formation Energy of Oxygen-Vacancies in Oxides. <i>Materials Transactions</i> , 2002 , 43, 1426-1429	3.3	91
384	Ab initio lattice dynamics and phase transformations of ZrO_2 . <i>Physical Review B</i> , 2005 , 71,	3.3	90
383	Ab initio charge transfer multiplet calculations on the L _{2,3} XANES and ELNES of 3d transition metal oxides. <i>Physical Review B</i> , 2011 , 83,	3.3	88
382	First-principles XANES simulations of spinel zinc ferrite with a disordered cation distribution. <i>Physical Review B</i> , 2007 , 75,	3.3	88
381	Raman-scattering study of CuGeO_3 in the spin-Peierls phase. <i>Physical Review B</i> , 1994 , 50, 16468-16474	3.3	88
380	Accelerated discovery of cathode materials with prolonged cycle life for lithium-ion battery. <i>Nature Communications</i> , 2014 , 5, 4553	17.4	86
379	Antiferromagnetic superexchange via 3d states of titanium in EuTiO_3 as seen from hybrid Hartree-Fock density functional calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	86
378	Theoretical Prediction of the Structure and Properties of Cubic Spinel Nitrides. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 75-80	3.8	86

377	Reduced SnO ₂ surfaces by first-principles calculations. <i>Applied Physics Letters</i> , 2004 , 84, 909-911	3.4	85
376	Single crystal growth of superconducting La _{2-x} Sr _x CuO ₄ by the TSFZ method. <i>Journal of Crystal Growth</i> , 1989 , 96, 711-715	1.6	85
375	Effects of Off-Stoichiometry of LiC ₆ on the Lithium Diffusion Mechanism and Diffusivity by First Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2375-2379	3.8	84
374	Structural Analysis and Superconducting Properties of F-Substituted NdOBiS ₂ Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 113701	1.5	83
373	Complete elastic constants and giant softening of c ₆₆ in superconducting La _{1.86} Sr _{0.14} CuO ₄ . <i>Physical Review Letters</i> , 1990 , 64, 2458-2461	7.4	77
372	Anti-ferrodistortive-like oxygen-octahedron rotation induced by the oxygen vacancy in cubic SrTiO ₃ . <i>Advanced Materials</i> , 2013 , 25, 86-90	2.4	76
371	Unconventional lattice stiffening in superconducting La _{2-x} Sr _x CuO ₄ single crystals. <i>Physical Review B</i> , 1995 , 52, 570-580	3.3	75
370	Growth and superconducting properties of F-substituted ROBiS ₂ (R=La, Ce, Nd) single crystals. <i>Solid State Communications</i> , 2014 , 178, 33-36	1.6	73
369	Temperature dependence of anisotropic lower critical fields in (La _{1-x} Sr _x) ₂ CuO ₄ . <i>Physical Review B</i> , 1990 , 41, 4823-4826	3.3	73
368	Theoretical ELNES using one-particle and multi-particle calculations. <i>Micron</i> , 2010 , 41, 695-709	2.3	72
367	Identification of ultradilute dopants in ceramics. <i>Nature Materials</i> , 2003 , 2, 541-5	27	72
366	Lattice dynamics and thermodynamical properties of silicon nitride polymorphs. <i>Physical Review B</i> , 2008 , 78,	3.3	71
365	Crystal growth of Ca ₁₂ Al ₁₄ O ₃₃ by the floating zone method. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 801-805	1.6	71
364	Interplay between lattice softening and high-T _c superconductivity in La _{1.86} Sr _{0.14} CuO ₄ . <i>Physical Review Letters</i> , 1993 , 70, 3447-3450	7.4	67
363	Cubic and orthorhombic structures of aluminum hydride AlH ₃ predicted by a first-principles study. <i>Physical Review B</i> , 2005 , 71,	3.3	65
362	Crystal structure, defect chemistry and oxygen ion transport of the ferroelectric perovskite, Na _{0.5} Bi _{0.5} TiO ₃ : insights from first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16574-16582	1.2	63
361	High-pressure torsion of titanium at cryogenic and room temperatures: Grain size effect on allotropic phase transformations. <i>Acta Materialia</i> , 2014 , 68, 207-213	8.4	62
360	First-Principles Study on Relaxor-Type Ferroelectric Behavior without Chemical Inhomogeneity in BaTaO ₂ N and SrTaO ₂ N. <i>Chemistry of Materials</i> , 2012 , 24, 4343-4349	9.6	61

359	Influence of the exchange-correlation functional on the quasi-harmonic lattice dynamics of II-VI semiconductors. <i>Journal of Chemical Physics</i> , 2015 , 143, 064710	3.9	60
358	Sparse representation for a potential energy surface. <i>Physical Review B</i> , 2014 , 90,	3.3	59
357	Ionization potentials of (112) and (112̄) facet surfaces of CuInSe ₂ and CuGaSe ₂ . <i>Physical Review B</i> , 2012 , 86,	3.3	59
356	Comparison of approximations in density functional theory calculations: Energetics and structure of binary oxides. <i>Physical Review B</i> , 2017 , 96,	3.3	58
355	Nanoporous crystal 12CaO.7Al ₂ O ₃ : a playground for studies of ultraviolet optical absorption of negative ions. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 1946-56	3.4	57
354	First-Principles Insight into the Hydration Ability and Proton Conduction of the Solid State Proton Conductor, Y and Sn Co-Doped BaZrO ₃ . <i>Chemistry of Materials</i> , 2015 , 27, 901-908	9.6	56
353	Evolution of crystal structures in metallic elements. <i>Physical Review B</i> , 2013 , 87,	3.3	56
352	Electron Carrier Generation in a Refractory Oxide 12CaO·7Al ₂ O ₃ by Heating in Reducing Atmosphere: Conversion from an Insulator to a Persistent Conductor. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3294-3298	3.8	56
351	Crystal structures of LaO _{1-x} F _x BiS ₂ (x~0.23, 0.46): Effect of F doping on distortion of BiS plane. <i>Journal of Solid State Chemistry</i> , 2014 , 212, 213-217	3.3	55
350	New nanostructured phases with reversible hydrogen storage capability in immiscible magnesium-zirconium system produced by high-pressure torsion. <i>Acta Materialia</i> , 2016 , 108, 293-303	8.4	54
349	Transition pathway of CO ₂ crystals under high pressures. <i>Physical Review B</i> , 2008 , 77,	3.3	54
348	First-principles interatomic potentials for ten elemental metals via compressed sensing. <i>Physical Review B</i> , 2015 , 92,	3.3	52
347	First-principles study of native defects and lanthanum impurities in NaTaO ₃ . <i>Physical Review B</i> , 2008 , 78,	3.3	52
346	First Principles Calculation of Fe L _{2,3} -edge X-ray Absorption Near Edge Structures of Iron Oxides. <i>Materials Transactions</i> , 2004 , 45, 1414-1418	1.3	50
345	Electronic and structural properties of the oxygen vacancy in BaTiO ₃ . <i>Applied Physics Letters</i> , 2011 , 98, 172901	3.4	49
344	Superconducting double perovskite bismuth oxide prepared by a low-temperature hydrothermal reaction. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3599-603	16.4	48
343	DynaPhoPy: A code for extracting phonon quasiparticles from molecular dynamics simulations. <i>Computer Physics Communications</i> , 2017 , 221, 221-234	4.2	48
342	First-Principles Calculations of Anion Vacancies in Oxides and Nitrides. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 68-74	3.8	47

341	First principles study of dopant solubility and defect chemistry in LiCoO ₂ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11235-11245	13	46
340	Core-hole effect on dipolar and quadrupolar transitions of SrTiO ₃ and BaTiO ₃ at Ti K edge. <i>Physical Review B</i> , 2005 , 71,	3-3	46
339	Thermal contraction at the spin-Peierls transition in CuGeO ₃ . <i>Physical Review B</i> , 1994 , 50, 12606-12610	3-3	46
338	Relation between structure and doping in La _{2-x} Sr _x CuO _{4+y} : a neutron diffraction study on single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 223, 396-416	1-3	46
337	Inversion symmetry breaking by oxygen octahedral rotations in the Ruddlesden-Popper NaRTiO ₄ family. <i>Physical Review Letters</i> , 2014 , 112, 187602	7-4	45
336	Ultra-severe plastic deformation: Evolution of microstructure, phase transformation and hardness in immiscible magnesium-based systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 701, 158-166	5-3	45
335	Band alignment of semiconductors and insulators using dielectric-dependent hybrid functionals: Toward high-throughput evaluation. <i>Physical Review B</i> , 2017 , 95,	3-3	45
334	Synthesis and electrochemistry of monoclinic Li(MnxFe _{1-x})BO ₃ : a combined experimental and computational study. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10690		45
333	Unconventional Superconductivity in the BiS ₂ -Based Layered Superconductor NdO _{0.71} F _{0.29} BiS ₂ . <i>Physical Review Letters</i> , 2017 , 118, 167002	7-4	44
332	Defect chemistry of a BaZrO ₃ Σ (111) grain boundary by first principles calculations and space-charge theory. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12339-46	3-6	44
331	²⁷ Al NMR Chemical Shifts in Oxide Crystals: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3869-3873	3-8	44
330	Impact of Chemical Fluctuations on Stacking Fault Energies of CrCoNi and CrMnFeCoNi High Entropy Alloys from First Principles. <i>Entropy</i> , 2018 , 20,	2-8	42
329	First-principles calculations of oxygen vacancy formation and metallic behavior at a Σ MnO ₂ grain boundary. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1726-34	9-5	38
328	Lattice thermal conductivities of two SiO ₂ polymorphs by first-principles calculations and the phonon Boltzmann transport equation. <i>Physical Review B</i> , 2018 , 97,	3-3	38
327	Crystal and electronic structure and magnetic properties of divalent europium perovskite oxides EuMO ₃ (M = Ti, Zr, and Hf): experimental and first-principles approaches. <i>Inorganic Chemistry</i> , 2012 , 51, 4560-7	5-1	38
326	Proton-Conducting Network in Lanthanum Orthophosphate. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19117-19124	3-8	38
325	Band offsets of CuInSe ₂ /CdS and CuInSe ₂ /ZnS (110) interfaces: A hybrid density functional theory study. <i>Physical Review B</i> , 2013 , 88,	3-3	38
324	Mn L _{2,3} -edge X-ray absorption spectroscopic studies on charge-discharge mechanism of Li ₂ MnO ₃ . <i>Applied Physics Letters</i> , 2014 , 104, 053906	3-4	37

323	Superoxide Ion Encaged in Nanoporous Crystal $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ Studied by Continuous Wave and Pulsed Electron Paramagnetic Resonance. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18557-18568	3-4	37
322	Distribution of solute atoms in Mg and spinel $\text{Si}_6\text{ZAl}_2\text{O}_7\text{N}_8$ by Al K-edge x-ray absorption near-edge structure. <i>Physical Review B</i> , 2005 , 71,	3-3	37
321	Oxygen vacancy formation and reduction properties of MnO_2 grain boundaries and the potential for high electrochemical performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17776-84	9-5	36
320	Theoretical Study on the Chemistry of Intergranular Glassy Film in $\text{Si}_3\text{N}_4/\text{Bi}_2\text{O}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 109-112	3-8	36
319	Geometric ferroelectricity in rare-earth compounds RGaO_3 and RInO_3 . <i>Physical Review B</i> , 2009 , 79,	3-3	36
318	Double thermoelectric power factor of a 2D electron system. <i>Nature Communications</i> , 2018 , 9, 2224	17-4	35
317	Epitaxial growth of Mn-doped EGa_2O_3 on spinel substrate. <i>Journal of Materials Research</i> , 2011 , 26, 578-583		35
316	Thermal annealing effect on magnetism and cation distribution in disordered ZnFe_2O_4 thin films deposited on glass substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2543-2545	2-8	35
315	Electronic States of Sulfur Doped TiO_2 by First Principles Calculations. <i>Materials Transactions</i> , 2004 , 45, 1987-1990	1-3	35
314	Conceptual and practical bases for the high accuracy of machine learning interatomic potentials: Application to elemental titanium. <i>Physical Review Materials</i> , 2017 , 1,	3-2	35
313	Atomistic Origin of Phase Stability in Oxygen-Functionalized MXene: A Comparative Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18947-18953	3-8	34
312	Atomic structure of luminescent centers in high-efficiency Ce-doped w-AlN single crystal. <i>Scientific Reports</i> , 2014 , 4, 3778	4-9	34
311	Functional complex point-defect structure in a huge-size-mismatch system. <i>Physical Review Letters</i> , 2013 , 110, 065504	7-4	33
310	Electronic structures of dynamically stable As_2O_3 , Sb_2O_3 , and Bi_2O_3 crystal polymorphs. <i>Physical Review B</i> , 2011 , 83,	3-3	33
309	First-principles-based phase diagram of the cubic BNC ternary system. <i>Physical Review B</i> , 2008 , 77,	3-3	33
308	Solubility of Si_3N_4 in Liquid SiO_2 . <i>Journal of the American Ceramic Society</i> , 2004 , 85, 25-32	3-8	33
307	Theoretical Fingerprints of Transition Metal L _{2,3} XANES and ELNES for Lithium Transition Metal Oxides by ab Initio Multiplet Calculations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11871-11879	3-8	32
306	Categorization of surface polarity from a crystallographic approach. <i>Computational Materials Science</i> , 2016 , 113, 221-230	3-2	31

305	Proximity to Fermi-surface topological change in superconducting LaO _{0.54} F _{0.46} BiS ₂ . <i>Physical Review B</i> , 2014 , 90,	3.3	31
304	Theoretical Photovoltaic Conversion Efficiencies of ZnSnP ₂ , CdSnP ₂ , and Zn _{1-x} Cd _x SnP ₂ Alloys. <i>Applied Physics Express</i> , 2013 , 6, 061201	2.4	31
303	Effective Doping in Cubic Si ₃ N ₄ and Ge ₃ N ₄ : A First-Principles Study. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 97-100	3.8	31
302	Characterization and structural analysis of twinned La _{2-x} Sr _x CuO _{4-y} crystals by neutron diffraction. <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 191, 455-468	1.3	31
301	Muon spin relaxation study on magnetism in high quality single crystal of a high transition temperature superconductor La _{2-x} Sr _x CuO _{4-y} (0.11 ≤ x ≤ 0.14). <i>Hyperfine Interactions</i> , 1991 , 63, 271-277	0.8	30
300	Structure, Superconductivity, and Magnetism of Ce(O,F)BiS ₂ Single Crystals. <i>Crystal Growth and Design</i> , 2015 , 15, 39-44	3.5	29
299	Direct evidence of hidden local spin polarization in a centrosymmetric superconductor LaO FBiS. <i>Nature Communications</i> , 2017 , 8, 1919	17.4	29
298	Phonon softening in paramagnetic bcc Fe and its relationship to the pressure-induced phase transition. <i>Physical Review B</i> , 2014 , 90,	3.3	29
297	Matrix- and tensor-based recommender systems for the discovery of currently unknown inorganic compounds. <i>Physical Review Materials</i> , 2018 , 2,	3.2	29
296	Conventional s-Wave Superconductivity in BiS ₂ -Based NdO _{0.71} F _{0.29} BiS ₂ Revealed by Thermal Transport Measurements. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 073707	1.5	29
295	Zr coordination change during crystallization of MgO-Al ₂ O ₃ -Bi ₂ O ₃ -rO ₂ glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2014 , 384, 47-54	3.9	28
294	Strong Spin-Lattice Coupling Through Oxygen Octahedral Rotation in Divalent Europium Perovskites. <i>Advanced Functional Materials</i> , 2013 , 23, 1864-1872	15.6	28
293	Free-Energy Calculation of Precipitate Nucleation in an Fe-Cu-Ni Alloy. <i>Materials Transactions</i> , 2004 , 45, 1978-1981	1.3	28
292	Coexistence of superconductivity and charge-density wave in the quasi-one-dimensional material HfTe. <i>Scientific Reports</i> , 2017 , 7, 45217	4.9	27
291	Classification of spinel structures based on first-principles cluster expansion analysis. <i>Physical Review B</i> , 2010 , 81,	3.3	27
290	First-principles calculations of x-ray absorption near edge structure and energy loss near edge structure: present and future. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 104201	1.8	26
289	Evaluation of Migration Energy of Lithium Ions in Chalcogenides and Halides by First Principles Calculation. <i>Materials Transactions</i> , 2002 , 43, 1460-1463	1.3	26
288	Structures and energetics of Bi ₂ O ₃ polymorphs in a defective fluorite family derived by systematic first-principles lattice dynamics calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	25

287	Effect of solute atoms on the chemical bonding of Fe ₃ C (cementite). <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 75, 237-248		25
286	Improper Inversion Symmetry Breaking and Piezoelectricity through Oxygen Octahedral Rotations in Layered Perovskite Family, LiRTiO ₄ (R = Rare Earths). <i>Advanced Electronic Materials</i> , 2016 , 2, 1500196	6.4	25
285	Proton trapping in Y and Sn Co-doped BaZrO ₃ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10045-10051	13	24
284	First-principles molecular orbital calculation of electron energy-loss near-edge structures of -quartz. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 1725-1729	3	24
283	Preparation of Y-Ba-Cu-O Superconducting Thin Films by the Mist Microwave Plasma Decomposition Method. <i>Japanese Journal of Applied Physics</i> , 1989 , 28, L1212-L1213	1.4	24
282	Mode decomposition based on crystallographic symmetry in the band-unfolding method. <i>Physical Review B</i> , 2017 , 95,	3.3	23
281	Theoretical Prediction of Post-Spinel Phases of Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 7-10	3.8	23
280	Low-Energy Spin Fluctuations in La _{2-x} Sr _x Cu _{1-y} Zn _y O ₄ (x=0.14, y=0.012). <i>Journal of the Physical Society of Japan</i> , 1993 , 62, 443-446	1.5	23
279	Elastic and inelastic neutron scattering studies on the tetragonal to orthorhombic phase transition of La _{2-x} Sr _x CuO ₄ . <i>European Physical Journal B</i> , 1994 , 94, 29-37	1.2	23
278	Anisotropy of upper critical field in the (110) _t and (001) _t planes for single-crystal La _{1.86} Sr _{0.14} CuO ₄ . <i>Physica B: Condensed Matter</i> , 1990 , 165-166, 1449-1450	2.8	23
277	Superconductivity in CeOBiS ₂ with cerium valence fluctuation. <i>Solid State Communications</i> , 2016 , 245, 11-14	1.6	23
276	Compositional descriptor-based recommender system for the materials discovery. <i>Journal of Chemical Physics</i> , 2018 , 148, 241719	3.9	22
275	Superconducting Anisotropies of F-Substituted LaOBiSe ₂ Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 114709	1.5	22
274	Electronic States and Chemical Bondings of an Interstitial Cation in Ionic Compounds AgCl and NaCl. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 3582-3590	1.5	22
273	Atomistic mechanism of proton conduction in solid CsHSO ₄ by a first-principles study. <i>Physical Review B</i> , 2004 , 69,	3.3	22
272	Valence state of Ti in conductive nanowires in sapphire. <i>Physical Review B</i> , 2004 , 70,	3.3	22
271	Local Chemical Bonding around Rare-Earth Ions in $\sqrt{3}\times\sqrt{3}$ - and $\sqrt{3}\times\sqrt{3}$ -Bi ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 2005 , 80, 2525-2532	3.8	22
270	Calculation of Grain-Boundary Bonding in Rare-Earth-Doped $\sqrt{3}\times\sqrt{3}$ -Bi ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 2005 , 81, 565-570	3.8	21

269	Electronic insulator-conductor conversion in hydride ion-doped $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ by electron-beam irradiation. <i>Applied Physics Letters</i> , 2005 , 86, 022109	3.4	21
268	Elastic properties and anisotropic pinning of the flux-line lattice in single-crystalline $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. <i>Physical Review B</i> , 1993 , 48, 9772-9781	3.3	21
267	Impact of interstitial C on phase stability and stacking-fault energy of the CrMnFeCoNi high-entropy alloy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	21
266	First-Principles Selection of Solute Elements for Er-Stabilized Bi_2O_3 Oxide-Ion Conductor with Improved Long-Term Stability at Moderate Temperatures. <i>Chemistry of Materials</i> , 2017 , 29, 3763-3768	9.6	20
265	C-axis electrical resistivity of $\text{PrO}_{1-x}\text{FaBiS}_2$ single crystals. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 083101	1.4	20
264	Ground state of the singly ionized oxygen vacancy in rutile TiO_2 . <i>Journal of Applied Physics</i> , 2013 , 114, 113702	2.5	20
263	Tetravalent dysprosium in a perovskite-type oxide. <i>Advanced Materials</i> , 2012 , 24, 2051-3	2.4	20
262	Competing Structural Instabilities in the Ruddlesden-Popper Derivatives HRTiO_4 (R = Rare Earths): Oxygen Octahedral Rotations Inducing Noncentrosymmetry and Layer Sliding Retaining Centrosymmetry. <i>Chemistry of Materials</i> , 2017 , 29, 656-665	9.6	19
261	Group-theoretical high-order rotational invariants for structural representations: Application to linearized machine learning interatomic potential. <i>Physical Review B</i> , 2019 , 99,	3.3	19
260	Effect of local coordination of Mn on Mn-L _{2,3} edge electron energy loss spectrum. <i>Journal of Applied Physics</i> , 2013 , 114, 054906	2.5	19
259	Flux-line lock-in to CuO planes in a $\text{La}_{1.9}\text{Sr}_{0.1}\text{CuO}_4$ single crystal. <i>Physical Review B</i> , 1997 , 56, 5610-5616	3.3	19
258	Influence of lanthanum addition on preparation and powder properties of cobalt phosphates. <i>Journal of Materials Science</i> , 2008 , 43, 5483-5488	4.3	19
257	Electronic Structures of $\text{Ln}_{3+x}\text{-SiAlONs}$ with Correlations to Solubility and Solution Effects. <i>Journal of the American Ceramic Society</i> , 2005 , 79, 2527-2532	3.8	19
256	Formation energy of Cr/Al vacancies in spinel MgCr_2O_4 and MgAl_2O_4 by first-principles calculations. <i>Physical Review B</i> , 2002 , 65,	3.3	19
255	Electronic Mechanism of Ag-Cluster Formation in AgBr and AgI. <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 2027-2036	1.5	19
254	Electronic Structure and Defect Chemistry of Tin(II) Complex Oxide SnNb_2O_6 . <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9604-9611	3.8	19
253	First-principles study of valence band offsets at $\text{ZnSnP}_2/\text{CdS}$, $\text{ZnSnP}_2/\text{ZnS}$, and related chalcopyrite/zincblende heterointerfaces. <i>Journal of Applied Physics</i> , 2013 , 114, 043718	2.5	18
252	Discovery of a Novel Sn(II)-Based Oxide SnMoO for Daylight-Driven Photocatalysis. <i>Advanced Science</i> , 2017 , 4, 1600246	13.6	18

251	First-principles investigation of atomic structures and stability of proton-exchanged layered sodium titanate. <i>Physical Review B</i> , 2009 , 79,	3.3	18
250	Effects of tilting mirrors on the solid-liquid interface during floating zone growth using tilting-mirror-type infrared-heating image furnace. <i>Journal of Crystal Growth</i> , 2010 , 312, 2008-2011	1.6	18
249	Theoretical Investigation of Al K-edge X-ray Absorption Spectra of Al, AlN and Al ₂ O ₃ . <i>Materials Transactions</i> , 2004 , 45, 2031-2034	1.3	18
248	First-Principles Calculations of Co Impurities and Native Defects in ZnO. <i>Materials Transactions</i> , 2002 , 43, 1439-1443	1.3	18
247	Growth and characterization of titanite (CaTiSiO ₅) single crystals by the floating zone method. <i>Journal of Crystal Growth</i> , 1988 , 87, 169-174	1.6	18
246	Low phonon conductivity of layered BiCuOS, BiCuOSe, and BiCuOTe from first principles. <i>Physical Review B</i> , 2016 , 94,	3.3	17
245	Local Structure and Energetics of Pr- and La-Doped SrTiO ₃ Grain Boundaries and the Influence on Core-Shell Structure Formation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25765-25778	3.8	17
244	Proton incorporation and trapping in ZrO ₂ grain boundaries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1400-1408	1.3	17
243	Superconductivity and its enhancement under high pressure in Bi-free single crystals of CeOBiS ₂ . <i>Journal of Alloys and Compounds</i> , 2017 , 722, 467-473	5.7	17
242	High-Temperature Fracture Mechanism of Low-Ca-Doped Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 673-679	3.8	17
241	Growth and superconductivity of Nd _{2-x} Ce _x CuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 437-438	1.3	17
240	Behavior of positive muons in high T _c superconductors La _{2-x} Sr _x CuO ₄ . <i>Hyperfine Interactions</i> , 1993 , 79, 921-927	0.8	17
239	Growth and Structure of Ce(O,F)SbS ₂ Single Crystals. <i>Crystal Growth and Design</i> , 2016 , 16, 3037-3042	3.5	17
238	Data-centric science for materials innovation. <i>MRS Bulletin</i> , 2018 , 43, 659-663	3.2	17
237	Linearized machine-learning interatomic potentials for non-magnetic elemental metals: Limitation of pairwise descriptors and trend of predictive power. <i>Journal of Chemical Physics</i> , 2018 , 148, 234106	3.9	17
236	YB ₄₈ the metal rich boundary of YB ₆₆ ; crystal growth and thermoelectric properties. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 87, 221-227	3.9	16
235	Structure in steel: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 624-627	5.7	16
234	Selective fabrication of n- and p-type SnO films without doping. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 192-196	2.5	16

233	High temperature defect chemistry in layered lithium transition-metal oxides based on first-principles calculations. <i>Journal of Power Sources</i> , 2013 , 244, 592-596	8.9	16
232	Effects of composition, crystal structure, and surface orientation on band alignment of divalent metal oxides: A first-principles study. <i>Physical Review Materials</i> , 2018 , 2,	3.2	16
231	Crystal growth and anisotropy of high temperature thermoelectric properties of yttrium borosilicide single crystals. <i>Journal of Solid State Chemistry</i> , 2016 , 233, 1-7	3.3	15
230	Thermoelectric phase diagram of the SrTiO ₃ /BrNbO ₃ solid solution system. <i>Journal of Applied Physics</i> , 2017 , 121, 185102	2.5	15
229	Stability of the β structure of transition elements. <i>Physical Review B</i> , 2016 , 93,	3.3	15
228	Variation of Zr-L _{2,3} XANES in tetravalent zirconium oxides. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 165505	1.8	15
227	Single crystal growth of superconducting La _{2-x} M _x CuO ₄ (M=Ca, Sr, Ba) by the TSFZ method. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 293, 14-19	1.3	15
226	X-ray absorption near-edge structures of disordered Mg _{1-x} Zn _x O solid solutions. <i>Physical Review B</i> , 2007 , 76,	3.3	15
225	First-principles Calculation of Transition-metal L _{2,3} -edge Electron-energy-loss Near-edge structures Based on Direct Diagonalization of the Many-electron Hamiltonian. <i>Materials Transactions</i> , 2002 , 43, 1435-1438	1.3	15
224	Li Intercalation into a β -MnO ₂ Grain Boundary. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8125-31	9.5	14
223	Atomic and electronic structures of the SrVO ₃ -LaAlO ₃ interface. <i>Journal of Applied Physics</i> , 2011 , 110, 046104	2.5	14
222	First-principles thermodynamics of La ₂ O ₃ -P ₂ O ₅ pseudobinary system. <i>Physical Review B</i> , 2011 , 84,	3.3	14
221	Effects of the diameter of rutile (TiO ₂) single crystals grown using tilting-mirror-type infrared heating image furnace on solid-liquid interface and etch pit density. <i>Journal of Crystal Growth</i> , 2011 , 317, 135-138	1.6	14
220	Crystal growth of strontium-substituted barium titanate (Ba _{1-x} Sr _x TiO ₃) by the floating zone method. <i>Journal of Crystal Growth</i> , 1995 , 155, 70-74	1.6	14
219	Irreversibility boundaries of Bi ₂ Sr ₂ CaCu ₂ O ₈ , La _{1.86} Sr _{0.14} CuO ₄ , and YBa ₂ Cu ₃ O ₇ : An interpretation based on the vortex-lattice quantum-melting model. <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 1555-1556	2.8	14
218	Temperature-dependent phonon spectra of magnetic random solid solutions. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	13
217	Protonic defects in yttria stabilized zirconia: incorporation, trapping and migration. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4814-22	3.6	13
216	Nitrogen and hydrogen defect equilibria in Ca ₁₂ Al ₁₄ O ₃₃ : a combined experimental and computational study. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15828		13

215	Crystal growth of rutile by tilting-mirror-type floating zone method. <i>Journal of Crystal Growth</i> , 2012 , 360, 105-110	1.6	13
214	Local Geometry and Energetics of Hydrogen in Orthorhombic SrZrO ₃ . <i>Materials Transactions</i> , 2005 , 46, 1106-1111	1.3	13
213	Subgap structures in the current-voltage properties of La ₂ -SrxCuO ₄ intrinsic Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 362, 290-295	1.3	13
212	Phase equilibrium in the NdCeCuO system. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 190, 112-113	1.3	13
211	Photocatalytic activity of H-PbO ₂ -type TiO ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 822-826	2.6	12
210	First-principles molecular dynamics study for average structure and oxygen diffusivity at high temperature in cubic Bi ₂ O ₃ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 475402	1.8	12
209	Raman-scattering study of CuGeO ₃ . <i>Physica B: Condensed Matter</i> , 1996 , 219-220, 104-106	2.8	12
208	Self-Combustion Synthesis of Novel Metastable Ternary Molybdenum Nitrides 2019 , 1, 64-70		11
207	Fast material search of lithium ion conducting oxides using a recommender system. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11582-11588	13	11
206	First-principles study in an inter-granular glassy film model of silicon nitride. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2673-2688	3.8	11
205	Effects of lamp power and mirror position on the interface shape of the silicon molten zone during infrared convergent heating. <i>CrystEngComm</i> , 2014 , 16, 4619-4623	3.3	11
204	An Improved Method for Quantitatively Predicting the Electrochemical Stabilities of Organic Liquid Electrolytes Using Ab Initio Calculations. <i>Journal of the Electrochemical Society</i> , 2014 , 161, G7-G14	3.9	11
203	Valence Band Structure of ZnO (1010) Surface by Cluster Calculation 1999 , 4, 69-80		11
202	Determination of the solubility of alkaline-earth metals (Ca, Sr, Ba) into La ₂ CuO ₄ by the SCFZ method. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 225, 185-189	1.3	11
201	Profile changes of X-ray spectra and their interpretation using the molecular-orbital method(Review).. <i>Bunseki Kagaku</i> , 1995 , 44, 251-269	0.2	11
200	Optical studies on La ₂ -SrxCuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1992 , 193, 277-290	1.3	11
199	Application of machine learning potentials to predict grain boundary properties in fcc elemental metals. <i>Physical Review Materials</i> , 2020 , 4,	3.2	11
198	Valence band offsets at zinc-blende heterointerfaces with misfit dislocations: A first-principles study. <i>Physical Review B</i> , 2013 , 88,	3.3	10

197	Local environment of silicon in cubic boron nitride. <i>Journal of Applied Physics</i> , 2013 , 114, 233502	2.5	10
196	First-principles investigation of R ₂ O ₃ (ZnO) ₃ (R=Al, Ga, and In) in homologous series of compounds. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 137-142	3.3	10
195	Suppression of the superconducting energy gap in intrinsic Josephson junctions of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ single crystals. <i>Superconductor Science and Technology</i> , 2004 , 17, 1160-1164	3.1	10
194	Behavior of oxygen bubbles during crystal growth of Ca ₁₂ Al ₁₄ O ₃₃ by floating method in magnetic field. <i>Crystal Research and Technology</i> , 2005 , 40, 329-333	1.3	10
193	Energetics of Hydrogen States in SrZrO ₃ . <i>Materials Transactions</i> , 2002 , 43, 1444-1450	1.3	10
192	Anisotropic coupling between high-T _c superconductivity and lattice in single-crystalline La _{1.86} Sr _{0.14} CuO ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 1397-1398	1.3	10
191	Crystal Structure and Superconductivity of Tetragonal and Monoclinic CePr OBiS. <i>Inorganic Chemistry</i> , 2018 , 57, 5364-5370	5.1	9
190	Impact of local strain on Ti-L _{2,3} electron energy-loss near-edge structures of BaTiO ₃ : a first-principles multiplet study. <i>Microscopy (Oxford, England)</i> , 2014 , 63, 249-54	1.3	9
189	Efficient determination of alloy ground-state structures. <i>Physical Review B</i> , 2014 , 90,	3.3	9
188	First-principles screening of structural properties of intermetallic compounds on martensitic transformation. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	9
187	Macroscopic quantum tunneling and phase diffusion in a La _{2-x} Sr _x CuO ₄ intrinsic Josephson junction stack. <i>Physical Review B</i> , 2012 , 86,	3.3	9
186	Atomistic structure and energetics of interface between Mn-doped γ -Ga ₂ O ₃ and MgAl ₂ O ₄ . <i>Journal of Materials Science</i> , 2011 , 46, 4169-4175	4.3	9
185	Anisotropic phonon density of states in FePt nanoparticles with L1 ₀ structure. <i>Physical Review B</i> , 2010 , 81,	3.3	9
184	Lattice dynamics and thermal properties of SrHfO ₃ by first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1628-1633	1.3	9
183	Cluster expansion with controlled accuracy for the MgO/ZnO pseudobinary system via first-principles calculations. <i>Physical Review B</i> , 2012 , 86,	3.3	9
182	Characteristics of rutile single crystals grown under two different oxygen partial pressures. <i>Journal of Crystal Growth</i> , 2004 , 268, 103-107	1.6	9
181	The growth of TiO ₂ (rutile) single crystals using the FZ method under high oxygen pressure. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 730-734	1.6	9
180	Faraday rotation and magnetization in CuGeO ₃ in ultra-high magnetic fields. <i>Physica B: Condensed Matter</i> , 1995 , 211, 184-186	2.8	9

179	Ultrasonic studies in the La _{1.85} Sr _{0.15} CuO ₄ single crystal under the magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 1395-1396	1.3	9
178	Protonic Conduction in the BaNdInO Structure Achieved by Acceptor Doping. <i>Chemistry of Materials</i> , 2021 , 33, 2139-2146	9.6	9
177	Significant reduction in hydration energy for yttria stabilized zirconia grain boundaries and the consequences for proton conduction. <i>Langmuir</i> , 2014 , 30, 10456-64	4	8
176	Reduced Etch Pit Density of Rutile (TiO ₂) Single Crystals by Growth Using a Tilting-Mirror-Type Infrared Heating Image Furnace. <i>Crystal Growth and Design</i> , 2010 , 10, 3929-3930	3.5	8
175	Site preference of cation vacancies in Mn-doped Ga ₂ O ₃ with defective spinel structure. <i>Applied Physics Letters</i> , 2012 , 101, 241906	3.4	8
174	AgB ₂ : Superconductivity and the role of paramagnons. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 466, 76-81	1.3	8
173	Observation of diamagnetic precursor to the Meissner state above T _c in high-T _c La _{2-x} Sr _x CuO ₄ cuprates by scanning SQUID microscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 367, 9-14	1.3	8
172	Energy Level Structure of LiYF ₄ :Dy ³⁺ : Crystal Field Analysis. <i>Materials Transactions</i> , 2004 , 45, 2026-2030	1.3	8
171	Prediction of the X-ray absorption near edge structure of the new high-density phase of SiO ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, R94-R96	1.3	8
170	The effect of B ₂ O ₃ addition on La _{2-x} Sr _x CuO ₄ single-crystal growth. <i>Journal of Crystal Growth</i> , 2000 , 212, 138-141	1.6	8
169	Superconductivity of hydrogen inserted LiNbO ₂ . <i>Materials Research Bulletin</i> , 2000 , 35, 1743-1746	5.1	8
168	Six-fold coordinated silicon at grain boundaries in sintered α -Al ₂ O ₃ . <i>Applied Physics Letters</i> , 1998 , 72, 191-193	3.4	8
167	Growth of La _{2-x} Sr _x CuO ₄ single-crystalline films by liquid phase epitaxial technique. <i>Physica C: Superconductivity and Its Applications</i> , 1999 , 315, 154-158	1.3	8
166	Dielectric properties of BaTi ₄ O ₉ single crystals. <i>Journal of Materials Science</i> , 1989 , 24, 959-962	4.3	8
165	Suppression of lattice thermal conductivity by mass-conserving cation mutation in multi-component semiconductors. <i>APL Materials</i> , 2016 , 4, 104809	5.7	8
164	Effects of tilt angle of mirror& system on shape of solid&liquid interface of silicon melt during floating zone growth using infrared convergent heating. <i>Journal of Crystal Growth</i> , 2016 , 433, 24-30	1.6	7
163	Cytotoxicity of stoichiometric hydroxyapatites with different crystallite sizesPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , 2014 , 2, 64-67	2.4	7
162	Theoretical study on the structure and energetics of intergranular glassy film in Si ₃ N ₄ -SiO ₂ ceramics. <i>International Journal of Materials Research</i> , 2010 , 101, 57-65	0.5	7

161	Thermodynamics and structures of oxide crystals by a systematic set of first principles calculations. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10335		7
160	First-principles prediction of low-energy structures for AlH ₃ . <i>Physical Review B</i> , 2009 , 79,	3.3	7
159	SYNTHESIS AND ELECTRICAL CONDUCTIVITY OF TETRA-VALENT CERIUM POLYPHOSPHATE BULKS. <i>Phosphorus Research Bulletin</i> , 2009 , 23, 20-24	0.3	7
158	Anisotropic electric resistivity of superconducting La _{2-x} BaxCuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 258, 315-320	1.3	7
157	Anisotropic susceptibility in the normal state and superconducting fluctuation-induced diamagnetism of single-crystal La _{2-x} SrxCuO ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 1855-1856	1.3	7
156	Thermal expansion measurements in a La _{1.85} Sr _{0.15} CuO ₄ single crystal superconductor by X-ray diffraction. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 1383-1384	1.3	7
155	SR lineshape of oriented and unoriented high T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 1555-1556	1.3	7
154	Single crystal growth of pure and Ba-doped strontium tantalate (SrTa ₂ O ₆) by floating zone method. <i>Journal of Crystal Growth</i> , 1990 , 99, 837-840	1.6	7
153	Fabrication of High-J _c Bi-2223 Sintered Bulk Superconductors. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1997 , 61, 900-905	0.4	7
152	Thermodynamics of Meissner effect and flux pinning behavior in the bulk of single-crystal La _{2-x} SrxCuO ₄ (x=0.09). <i>Physical Review B</i> , 2017 , 96,	3.3	6
151	Flux Growth and Superconducting Properties of (Ce,Pr)OBiS Single Crystals. <i>Frontiers in Chemistry</i> , 2020 , 8, 44	5	6
150	Feed Size Dependence of Position Effects of Mirror-Lamp System on Shape of Silicon Crystal during Its Growth by Mirror-Shifting-Type Infrared Convergent-Heating Floating Zone Method. <i>Crystal Growth and Design</i> , 2014 , 14, 5117-5121	3.5	6
149	Atomic-level modeling and computation of intergranular glassy film in high-purity Si ₃ N ₄ ceramics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 1301-1311	6	6
148	Cluster expansion of multicomponent ionic systems with controlled accuracy: importance of long-range interactions in heterovalent ionic systems. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 115403	1.8	6
147	Inter-granular glassy phases in the low-CaO-doped HIPed Si ₃ N ₄ ceramics: a review. <i>International Journal of Materials Research</i> , 2010 , 101, 66-74	0.5	6
146	Beam damage suppression of low-kappa porous Si-O-C films by cryo-electron-energy loss spectroscopy (EELS). <i>Journal of Electron Microscopy</i> , 2009 , 58, 29-34		6
145	Electronic structure and x-ray-absorption near-edge structure of amorphous Zr-oxide and Hf-oxide thin films: A first-principles study. <i>Journal of Applied Physics</i> , 2005 , 97, 073519	2.5	6
144	First Principles Study of Core-hole Effect on Fluorine K-edge X-ray Absorption Spectra of MgF ₂ and ZnF ₂ . <i>Materials Transactions</i> , 2004 , 45, 1991-1993	1.3	6

143	Control of the anisotropic growth rates of oxide single crystals in floating zone growth. <i>Journal of Crystal Growth</i> , 2001 , 229, 423-427	1.6	6
142	Electronic Structure and Chemical Bonding of TiS ₂ by Cluster Calculation. <i>Materials Transactions, JIM</i> , 1998 , 39, 709-713		6
141	Lattice-dynamics and spin-excitations in the spin-Peierls compound CuGeO ₃ . <i>Physica B: Condensed Matter</i> , 1995 , 213-214, 284-287	2.8	6
140	Electronic structure of 3d transition elements in TiSi_3N_4 . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 72, 459-473		6
139	Elastic anomalies in a La _{1.85} Sr _{0.15} CuO ₄ single crystal under high magnetic fields. <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 1579-1580	2.8	6
138	Cerium distribution coefficient and its dependence on oxygen partial pressure in Nd _{2-x} Ce _x CuO ₄ single crystal growth. <i>Physica C: Superconductivity and Its Applications</i> , 1993 , 218, 437-442	1.3	6
137	Temperature dependence of (\mathbb{D}) paramagnetic shift in highT c superconductor La _{2-x} Sr _x CuO ₄ . <i>Hyperfine Interactions</i> , 1993 , 79, 879-883	0.8	6
136	Local hyperfine field vector of positive muon in mono-domain single crystal of antiferromagnetic La ₂ CuO ₄ . <i>Hyperfine Interactions</i> , 1993 , 79, 915-920	0.8	6
135	Inelastic-neutron-scattering study of the electron-phonon interaction in a superconducting La _{1.85} Sr _{0.15} CuO ₄ single crystal. <i>Physical Review B</i> , 1990 , 42, 4272-4275	3.3	6
134	The growth of tapiolite (FeTa ₂ O ₆) single crystals by the floating zone method. <i>Journal of Crystal Growth</i> , 1985 , 73, 175-178	1.6	6
133	A-site cation size effect on oxygen octahedral rotations in acentric Ruddlesden-Popper alkali rare-earth titanates. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
132	Pressure-induced insulator to metal transition of mixed valence compound Ce(O,F)SbS ₂ . <i>Journal of Applied Physics</i> , 2019 , 125, 075102	2.5	6
131	Bulk superconductivity in a four-layer-type Bi-based compound LaOBiAgSnS ₂ . <i>Scientific Reports</i> , 2019 , 9, 13346	4.9	5
130	Special quasirandom structure in heterovalent ionic systems. <i>Physical Review B</i> , 2015 , 91,	3.3	5
129	Synthesis, crystal structure and optical absorption of NaInS ₂ -Se. <i>Journal of Alloys and Compounds</i> , 2018 , 750, 409-413	5.7	5
128	Growth of large La _{2-x} Sr _x CuO ₄ single crystals using tilting-mirror-type infrared heating image furnace. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 472, 87-91	1.3	5
127	Ce 4f electronic states of CeO _{1-x} F _x BiS ₂ studied by soft x-ray photoemission spectroscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	5
126	Inducement of Superconductivity in Fe(Te,S) by Sulfuric Acid Treatment. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 085005	1.5	5

125	Vanadium L2,3 XANES experiments and first-principles multielectron calculations: Impact of second-nearest neighboring cations on vanadium-bearing fresnoites. <i>American Mineralogist</i> , 2013 , 98, 665-670	2.9	5
124	First-principles study of defect-induced potentials in Ca ₂ CuO ₂ Cl ₂ . <i>Physical Review B</i> , 2009 , 80,	3.3	5
123	Fabrication of submicron La _{2-x} Sr _x CuO ₄ intrinsic Josephson junction stacks. <i>Journal of Applied Physics</i> , 2011 , 109, 033912	2.5	5
122	Transport characteristics in c-axis La _{2-x} Sr _x CuO ₄ (LSCO) single crystals. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 3782-3785	1.8	5
121	First-principles Calculation of L3 X-ray Absorption Near Edge Structures (XANES) and Electron Energy Loss Near Edge Structures (ELNES) of GaN and InN Polymorphs. <i>Materials Transactions</i> , 2004 , 45, 2023-2025	1.3	5
120	Growth of Bi-2212 single crystals by the travelling solvent zone melting method. <i>Superconductor Science and Technology</i> , 2002 , 15, 458-461	3.1	5
119	Intergranular Glassy Films in Ceramics.. <i>Journal of the Ceramic Society of Japan</i> , 2001 , 109, S127-S134		5
118	Crystal growth of pure and Zn-doped CuGeO ₃ by the floating zone (FZ) method. <i>Journal of Crystal Growth</i> , 1996 , 169, 469-473	1.6	5
117	Probing oxygen in high T _c superconductor LaSrCuO by negative muons. <i>Hyperfine Interactions</i> , 1991 , 65, 1015-1026	0.8	5
116	The growth of barium tetratitanate (BaTi ₄ O ₉) single crystals by the floating zone method. <i>Journal of Crystal Growth</i> , 1986 , 76, 311-316	1.6	5
115	First-Principles Calculations of Phase Transition in CaTiO ₃ under Negative Static Pressure. <i>Journal of the Korean Physical Society</i> , 2011 , 59, 2497-2502	0.6	5
114	Influence of Se doping on recently synthesized NaInS _{2-x} Se _x solid solutions for potential thermo-mechanical applications studied via first-principles method. <i>Materials Today Communications</i> , 2021 , 26, 101988	2.5	5
113	Vibrational Effects in X-ray Absorption Spectra of Two-Dimensional Layered Materials. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9688-9692	3.8	5
112	High Rate Performance of Dual-Substituted LiFePO ₄ Based on Controlling Metastable Intermediate Phase. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6736-6740	6.1	5
111	Crystal Growth and Characterization of Li _x La _(1-x) 3NbO ₃ by the Traveling Solvent Floating Zone Method. <i>Crystal Growth and Design</i> , 2019 , 19, 6291-6295	3.5	4
110	Growth and Characterization of ROBiS High-Entropy Superconducting Single Crystals. <i>ACS Omega</i> , 2020 , 5, 16819-16825	3.9	4
109	Epitaxial growth of tin(II) niobate with a pyrochlore structure. <i>Journal of Crystal Growth</i> , 2015 , 416, 126-129		4
108	First principles calculations for modern ceramic science and engineering. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 064215	1.8	4

107	First Principles Calculation of CO and H2 Adsorption on Strained Pt Surface. <i>Materials Transactions</i> , 2008 , 49, 2484-2490	1.3	4
106	Intrinsic Josephson properties of. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1922-1924	1.3	4
105	Growth mechanism of EuBa ₂ Cu ₃ O _x single-crystalline whiskers from Ca and Te doped precursors. <i>Journal of Crystal Growth</i> , 2006 , 289, 192-196	1.6	4
104	Characterization of intrinsic Josephson junctions for La _{2-x} Sr _x CuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 367, 382-387	1.3	4
103	Preparation of La _{2-x} Sr _x CuO ₄ single-crystalline films by infrared-heated liquid phase epitaxial technique. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 362, 180-185	1.3	4
102	Josephson vortex flow in La _{2-x} Sr _x CuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 362, 277-281	1.3	4
101	X-ray topography investigation of La _{2-x} Sr _x CuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 336, 244-248	1.3	4
100	Growth and superconductivity of La _{2-x} CaxCuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 262, 202-206	1.3	4
99	Electron irradiation effects on a La _{1.85} Sr _{0.15} CuO ₄ single crystal. <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 1881-1882	2.8	4
98	Effects of superconductivity on elastic constants of La _{2-x} Sr _x CuO ₄ . <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 2167-2168	2.8	4
97	Single-crystal growth of Nd _{2-x} CexCuO ₄ at low oxygen pressure in ambient atmosphere. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 228, 58-62	1.3	4
96	Floating Zone Growth and Characterization of (Ca Nd)AlO (~ 0.001) Single Crystals. <i>ACS Omega</i> , 2016 , 1, 1157-1163	3.9	4
95	Recommender System of Successful Processing Conditions for New Compounds Based on a Parallel Experimental Data Set. <i>Chemistry of Materials</i> , 2019 , 31, 9984-9992	9.6	4
94	Growth of LiCoO ₂ Single Crystals by the TSFZ Method. <i>Crystal Growth and Design</i> , 2019 , 19, 415-420	3.5	4
93	Growth and physical properties of Ce(O,F)Sb(S,Se) ₂ single crystals with site-selected chalcogen atoms. <i>Solid State Communications</i> , 2019 , 289, 38-42	1.6	4
92	NalnX ₂ (X = S, Se) layered materials for energy harvesting applications: first-principles insights into optoelectronic and thermoelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 3878-3893	2.1	4
91	Crystal growth of La Li TiO by the TSFZ method. <i>Royal Society Open Science</i> , 2018 , 5, 181445	3.3	4
90	Growth of Superconducting Sm(O,F)BiS ₂ Single Crystals. <i>Crystal Growth and Design</i> , 2019 , 19, 6136-6140	3.5	3

89	Growth and transport properties under high pressure of PrOBiS ₂ single crystals. <i>Solid State Communications</i> , 2019 , 296, 17-20	1.6	3
88	Lithium-ionic conductivity of Li _x La(1-x)/3NbO ₃ single crystals grown by the TSFZ method. <i>Solid State Ionics</i> , 2020 , 350, 115330	3.3	3
87	Comparative ARPES studies of LaOxFe _{1-x} BiS ₂ (x = 0.23 and 0.46). <i>Journal of Physics: Conference Series</i> , 2016 , 683, 012002	0.3	3
86	Stability of 12CaO·7Al ₂ O ₃ Crystal under High-Pressure: Experimental and First-Principles Approaches. <i>Materials Transactions</i> , 2015 , 56, 1350-1353	1.3	3
85	Axis symmetry of silicon molten zone interface shape under a mirror-shifting-type infrared convergent-heating floating-zone method. <i>CrystEngComm</i> , 2015 , 17, 9452-9458	3.3	3
84	Ground-state search in multicomponent magnetic systems. <i>Physical Review B</i> , 2012 , 85,	3.3	3
83	Growth and Anisotropic Properties of RBa ₂ Cu ₃ O _x Single-Crystal Whiskers. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 033101	1.4	3
82	Growth of Nd-doped YVO ₄ single crystals along <100>tetra by the anisotropic heating floating zone method. <i>Journal of Crystal Growth</i> , 2009 , 311, 4535-4537	1.6	3
81	Current-induced in-plane superconducting transition in intrinsic Josephson junctions. <i>Superconductor Science and Technology</i> , 2006 , 19, S209-S212	3.1	3
80	Growth and characterization of Ca doped Eu-123 whiskers for intrinsic Josephson junction applications. <i>Superconductor Science and Technology</i> , 2006 , 19, 290-293	3.1	3
79	X-ray Absorption Near Edge Structures of Silicon Nitride Thin Film by Pulsed Laser Deposition. <i>Materials Transactions</i> , 2004 , 45, 2039-2041	1.3	3
78	Growth and superconducting properties of (Eu,R)Ba ₂ Cu ₃ O ₇ (R = Er, Tm) single-crystalline whiskers. <i>Superconductor Science and Technology</i> , 2005 , 18, 1238-1243	3.1	3
77	Infrared furnace with a superconducting magnet for floating zone growth of oxide single crystals. <i>Review of Scientific Instruments</i> , 2005 , 76, 035104	1.7	3
76	Theoretical Solution Energy of Alkaline Earth Ions in Lanthanum Chromites. <i>Materials Transactions</i> , 2002 , 43, 1456-1459	1.3	3
75	Anisotropic electrical resistivity and oxygen annealing effect on it in La _{2-x} CaxCuO ₄ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 234, 115-119	1.3	3
74	Single crystal growth of tantalite ((Fe,Mn)(Ta,Nb) ₂ O ₆) solid solutions. <i>Journal of Crystal Growth</i> , 1988 , 91, 141-146	1.6	3
73	First-Principles Study on the Stability of Weberite-Type, Pyrochlore, and Defect-Fluorite Structures of A ₂ B ₂ O ₇ (A = Lu ³⁺ , La ³⁺ , B = Zr ⁴⁺ , Hf ⁴⁺ , Sn ⁴⁺ , and Ti ⁴⁺). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20555-20562	3.8	3
72	Impacts of first principles calculations in engineering ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 791-795	1	3

71	Determination of the phase relation of a $\text{Li}_x\text{La}_{(1-x)}/3\text{NbO}_3$ system by the slow cooling floating zone method. <i>Journal of Crystal Growth</i> , 2019 , 507, 251-254	1.6	3
70	Theoretical investigation of solid solution states of $\text{Ti}_1-x\text{V}_x\text{H}_2$. <i>Acta Materialia</i> , 2017 , 134, 274-282	8.4	2
69	Growth and characterization of $(\text{La,Ce})\text{OBiS}_2$ single crystals. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 063001	1.4	2
68	Growth of $\text{Cu}(\text{In,Ga})\text{S}_2$ single crystals using CsCl flux. <i>Journal of Crystal Growth</i> , 2015 , 412, 16-19	1.6	2
67	Surface design of alloy protection against CO-poisoning from first principles. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 355006	1.8	2
66	Synthesis of $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiS}_2$ nanosheets by ultrasonification. <i>Journal of Asian Ceramic Societies</i> , 2017 , 5, 183-185	2.4	2
65	Effects of growth parameters on silicon molten zone formed by infrared convergent-heating floating zone method. <i>Journal of Crystal Growth</i> , 2017 , 459, 105-111	1.6	2
64	Theoretical Calculations of Segregation Behavior of Zinc and Magnesium at Hydroxyapatite Surface in Contact with Water. <i>Materials Transactions</i> , 2013 , 54, 1262-1267	1.3	2
63	Possible experimental signature of charge-orbital density waves in $\text{Nd}_{1-x}\text{Ca}_{1+x}\text{MnO}_4$: Heat capacity and magnetization study. <i>Physical Review B</i> , 2007 , 75,	3.3	2
62	Direct observation of quantized interlayer vortex flow in a high- T_c $\text{La}_{1.87}\text{Sr}_{0.13}\text{CuO}_4$ single crystal. <i>Applied Physics Letters</i> , 2007 , 91, 202511	3.4	2
61	Temperature dependent polarized XANES spectra for Zn-doped LSCO system. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 78-83	1.3	2
60	Depression of the superconducting transition temperature in neutron irradiated $\text{La}_2\text{CuO}_{4+\delta}$ <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 369-370	1.3	2
59	Chemical Bondings around Intercalated Cr and Fe Atoms in TiS_2 . <i>Materials Transactions, JIM</i> , 2000 , 41, 1088-1091		2
58	Characterization of Single Crystals of High- T_c Superconductor $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 4959-4965	1.4	2
57	Homogeneity of Single Crystal of High- T_c Superconductor $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, 4593-4597	1.4	2
56	The dependence of the magnetoacoustic properties of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ on doping. <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 1863-1864	2.8	2
55	The dependence of Ce incorporation on the effective distribution coefficient of Ce in $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ single crystals grown by the TSFZ method. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 226, 262-266	1.3	2
54	TSFZ growth of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ single crystals at low oxygen pressure. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 557-558	1.3	2

53	Quantitative analysis of zero field cooling and field cooling curves to determine the critical current density and lower critical field. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 2163-2164 ^{1,3}	2
52	Single crystal growth of pure and Y-substituted NdAlO ₃ by the floating zone (FZ) method. <i>Journal of Crystal Growth</i> , 1993 , 128, 680-683	1.6 2
51	Growth and anisotropy evaluation of NbBiCh ₃ (Ch = S, Se) misfit-layered superconducting single crystals. <i>Solid State Communications</i> , 2020 , 321, 114051	1.6 2
50	First-principles calculations of high-pressure phase transition of TiO ₂ during decompression: From baddeleyite-type TiO ₂ to β -PbO ₂ -type TiO ₂ . <i>Journal of Applied Physics</i> , 2016 , 120, 142108	2.5 2
49	Bulk sensitive angle-resolved photoelectron spectroscopy on Nd(O,F)BiS ₂ . <i>Journal of Physics: Conference Series</i> , 2016 , 683, 012003	0.3 2
48	Solution effect on improved structural compatibility of NiTi-based alloys by systematic first-principles calculations. <i>Journal of Applied Physics</i> , 2019 , 125, 055106	2.5 2
47	Synthesis of Bi ₂ (O,F)S ₂ superconductors by NaF treatment. <i>Journal of the Ceramic Society of Japan</i> , 2018 , 126, 591-593	1 2
46	Growth and superconducting properties of Cd-doped La(O,F)BiS ₂ single crystals. <i>Solid State Communications</i> , 2017 , 261, 32-36	1.6 1
45	Growth of Cr ₂ N single crystals by the floating zone method. <i>Journal of Crystal Growth</i> , 2020 , 546, 125782.6	1
44	Effects of the Mirror Tilt Angle on the Growth of LiCoO ₂ Single Crystals by the Traveling Solvent Floating Zone (TSFZ) Technique Using a Tilting-Mirror-type Image Furnace. <i>Crystal Growth and Design</i> , 2020 , 20, 3413-3416	3.5 1
43	Position effects of mirrorlamp system on the growth of rutile crystal based on the infrared convergent-heating floating zone method. <i>Journal of Crystal Growth</i> , 2018 , 496-497, 69-73	1.6 1
42	Manifestation of hopping conductivity and granularity within phase diagrams of LaO F BiS, Sr La FBiS and related BiS-based compounds. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 355702	1.8 1
41	Phase relationships and structures of inorganic crystals by a combination of the cluster expansion method and first principles calculations. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 384207	1.8 1
40	Observation of macroscopic quantum tunneling in La _{2-x} Sr _x CuO ₄ intrinsic Josephson Junctions. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 052132	0.3 1
39	Singular ring-shaped distribution of Nd in Nd _x Y _{1-x} VO ₄ crystals grown by floating zone method. <i>Crystal Research and Technology</i> , 2010 , 45, 692-696	1.3 1
38	INFLUENCE OF UREA ADDITION ON PREPARATION AND ACIDIC PROPERTIES OF AMORPHOUS LANTHANUM PYROPHOSPHATE. <i>Phosphorus Research Bulletin</i> , 2007 , 21, 53-59	0.3 1
37	High-Density Electron Anions in a Nanoporous Single Crystal: [Ca ₂₄ Al ₂₈ O ₆₄] ₄₊ (4e ⁻).. <i>ChemInform</i> , 2003 , 34, no	1
36	Electronic States of F-Centers in Alkali Halide Crystals. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 2564-2570	1.5 1

35	Orientation of the flux line lattice in anisotropic superconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 671-672	2.8	1
34	Thermal expansion of a La _{1.87} Sr _{0.13} CuO ₄ single crystal at T _c in high magnetic fields. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 1931-1932	1.3	1
33	Neutron depolarization study of flux distribution in superconducting state. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 1839-1840	1.3	1
32	The Growth of Nd _{2-x} Ce _x CuO ₄ Single Crystals by the TSFZ Method. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1990 , 184, 69-73		1
31	TSFZ Growth of La _{2-x} Ba _x CuO ₄ Single Crystals Under Varied Oxygen Partial Pressure 1998 , 371-374		1
30	Combination of recommender system and single-particle diagnosis for accelerated discovery of novel nitrides. <i>Journal of Chemical Physics</i> , 2021 , 154, 224117	3.9	1
29	Control of the solid-liquid interface during growth of a Ce-doped Gd ₂ Si ₂ O ₇ crystal by the traveling solvent floating zone method. <i>Journal of Crystal Growth</i> , 2017 , 468, 465-468	1.6	0
28	Differential Conductance Properties of La _{2-x} Sr _x CuO ₄ Intrinsic Josephson Junctions under Magnetic Field. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 124-125	1.4	0
27	Enumeration of nonequivalent substitutional structures using advanced data structure of binary decision diagram. <i>Journal of Chemical Physics</i> , 2020 , 153, 104109	3.9	0
26	Cooperative Oxide-Ion Transport in Pyrochlore Y ₂ Ti ₂ O ₇ : A First-Principles Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20460-20467	3.8	0
25	Materials Design Using First-Principles Calculations for Lithium-Ion Batteries. <i>Materia Japan</i> , 2017 , 56, 430-433	0.1	
24	Correction to Structure, Superconductivity, and Magnetism of Ce(O,F)BiS ₂ Single Crystals. <i>Crystal Growth and Design</i> , 2016 , 16, 2459-2459	3.5	
23	Toward Materials Discovery with First-Principles Datasets and Learning Methods. <i>Springer Series in Materials Science</i> , 2016 , 173-186	0.9	
22	New Approaches to Computational Materials Science Using First Principles Methods. <i>Materia Japan</i> , 2017 , 56, 234-237	0.1	
21	Growth of Ba ₃ In ₄ Cu ₃ O ₁₂ single-crystal whiskers. <i>Journal of Crystal Growth</i> , 2012 , 346, 61-63	1.6	
20	First Principles Lattice Dynamics Calculations of Ag ⁺ Doped KX (X=Cl, Br and I). <i>Materials Transactions</i> , 2009 , 50, 999-1003	1.3	
19	Effect of substrates on superconductivity and composition of the IR-LPE La _{2-x} Sr _x CuO ₄ single crystalline films. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 1302-1305	1.3	
18	Transition behavior of La ₂ CuO ₄ +δ single crystals chemically oxidized in KMnO ₄ aqueous solution. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 367-370	1.3	

- 17 Different tunneling regimes in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ break junctions. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 1935-1936 1.3
- 16 Anisotropy of the flux pinning in $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ observed by ultrasound. *Physica B: Condensed Matter*, **1994**, 194-196, 1837-1838 2.8
- 15 Optical properties and transition temperatures of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ crystals ($x=0, 0.14, 0.19$). *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 951-952 1.3
- 14 Growth of Superconducting $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ Single Crystals. *Materials Research Society Symposia Proceedings*, **1989**, 156, 183
- 13 Chemical Oxidation on The Surface of La_2CuO_4 Single Crystals **2000**, 140-142
- 12 Coordination and Interface Analysis of Atomic-Layer-Deposition Al_2O_3 on Si (001) Using EELS. *Materia Japan*, **2004**, 43, 982-982 0.1
- 11 Growth and Superconductive Properties of La_2CuO_4 Single Crystals **1991**, 455-458
- 10 Anisotropy in Magnetization and Critical Current Density of La-Sr-Cu-O Single Crystal **1991**, 563-566
- 9 A New Method of Determining $T_c(H)$ of Single-Crystal $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ from the Field-Dependent Susceptibility Above T_c **1992**, 159-162
- 8 Crystal growth of high Sr-doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ by the TSFZ method **1994**, 353-356
- 7 Unusual Lattice Hardening below T_c in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ **1995**, 219-224
- 6 Thermal Expansion Anomaly in High T_c $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ Associated with the Superconductivity **1996**, 219-222
- 5 Poster: Electronic Structure, Lattice Dynamics, and Transport 471-522
- 4 Growth and characterization of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ single crystals by using floating zone method for use as fast Li-ion conductor *Journal of Physics: Conference Series*, **2021**, 1718, 012012 0.3
- 3 Effect of Li concentration on the ionic conductivity of $\text{Li}_x\text{La}_{(1-x)}/3\text{Nb}_{0.80}\text{Ta}_{0.20}\text{O}_3$ solid solutions. *Journal of the Ceramic Society of Japan*, **2021**, 129, 535-539 1
- 2 Investigating the combined effects of mirror tilting and position on rutile crystal growth using the infrared convergent-heating floating zone method. *Journal of Crystal Growth*, **2021**, 571, 126257 1.6
- 1 Fluorine solubility and superconducting properties of $\text{Sm}(\text{O},\text{F})\text{BiS}_2$ single crystals. *Journal of Alloys and Compounds*, **2021**, 883, 160812 5.7