

Isao Tanaka

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

412
papers

19,886
citations

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	Influence of Se doping on recently synthesized $\text{NaNs}_{2-x}\text{Sex}$ solid solutions for potential thermo-mechanical applications studied via first-principles method. <i>Materials Today Communications</i> , 2021 , 26, 101988	2.5	5
411	Protonic Conduction in the BaNdInO Structure Achieved by Acceptor Doping. <i>Chemistry of Materials</i> , 2021 , 33, 2139-2146	9.6	9
410	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
409	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. <i>Journal of Physics: Conference Series</i> , 2021 , 1718, 012012	0.3	
408	NaNX_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
407	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. <i>Journal of the Ceramic Society of Japan</i> , 2021 , 129, 535-539	1	
406	Cooperative Oxide-Ion Transport in Pyrochlore $\text{Y}_2\text{Ti}_2\text{O}_7$: A First-Principles Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20460-20467	3.8	0
405	Investigating the combined effects of mirror tilting and position on rutile crystal growth using the infrared convergent-heating floating zone method. <i>Journal of Crystal Growth</i> , 2021 , 571, 126257	1.6	
404	Fluorine solubility and superconducting properties of $\text{Sm}(\text{O},\text{F})\text{BiS}_2$ single crystals. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160812	5.7	
403	Lithium-ionic conductivity of $\text{Li}_x\text{La}_{(1-x)}/3\text{NbO}_3$ single crystals grown by the TSFZ method. <i>Solid State Ionics</i> , 2020 , 350, 115330	3.3	3
402	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
401	Growth of Cr_2N single crystals by the floating zone method. <i>Journal of Crystal Growth</i> , 2020 , 546, 125782.6		1
400	Growth and Characterization of ROBiS High-Entropy Superconducting Single Crystals. <i>ACS Omega</i> , 2020 , 5, 16819-16825	3.9	4
399	Flux Growth and Superconducting Properties of $(\text{Ce},\text{Pr})\text{OBiS}$ Single Crystals. <i>Frontiers in Chemistry</i> , 2020 , 8, 44	5	6
398	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
397	Application of machine learning potentials to predict grain boundary properties in fcc elemental metals. <i>Physical Review Materials</i> , 2020 , 4,	3.2	11
396	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

395	First-Principles Study on the Stability of Weberite-Type, Pyrochlore, and Defect-Fluorite Structures of $A_2B_3O_7$ ($A = Lu^{3+}, La^{3+}$, $B = Zr^{4+}, Hf^{4+}, Sn^{4+}$, and Ti^{4+}). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20555-20562	3.8	3
394	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
393	Growth and characterization of $(La,Ce)OBiS_2$ single crystals. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 063001	1.4	2
392	Growth of Superconducting $Sm(O,F)BiS_2$ Single Crystals. <i>Crystal Growth and Design</i> , 2019 , 19, 6136-6140	3.5	3
391	Crystal Growth and Characterization of $LixLa(1-x)/3NbO_3$ by the Traveling Solvent Floating Zone Method. <i>Crystal Growth and Design</i> , 2019 , 19, 6291-6295	3.5	4
390	Bulk superconductivity in a four-layer-type Bi-based compound $LaOBiAgSnSSe$. <i>Scientific Reports</i> , 2019 , 9, 13346	4.9	5
389	Self-Combustion Synthesis of Novel Metastable Ternary Molybdenum Nitrides 2019 , 1, 64-70		11
388	Growth and transport properties under high pressure of $PrOBiS_2$ single crystals. <i>Solid State Communications</i> , 2019 , 296, 17-20	1.6	3
387	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
386	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
385	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
384	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
383	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
382	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
381	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
380	Growth of $LiCoO_2$ Single Crystals by the TSFZ Method. <i>Crystal Growth and Design</i> , 2019 , 19, 415-420	3.5	4
379	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
378	Determination of the phase relation of a $LixLa(1-x)/3NbO_3$ system by the slow cooling floating zone method. <i>Journal of Crystal Growth</i> , 2019 , 507, 251-254	1.6	3

377	Design and synthesis of a magnesium alloy for room temperature hydrogen storage. <i>Acta Materialia</i> , 2018 , 149, 88-96	8.4	101
376	Crystal Structure and Superconductivity of Tetragonal and Monoclinic CePr OBiS. <i>Inorganic Chemistry</i> , 2018 , 57, 5364-5370	5.1	9
375	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
374	Position effects of mirror lamp 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
373	Compositional descriptor-based recommender system for the materials discovery. <i>Journal of Chemical Physics</i> , 2018 , 148, 241719	3.9	22
372	Synthesis, crystal structure and optical absorption of NaInS ₂ -Se. <i>Journal of Alloys and Compounds</i> , 2018 , 750, 409-413	5.7	5
371	Temperature-dependent phonon spectra of magnetic random solid solutions. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	13
370	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
369	Double thermoelectric power factor of a 2D electron system. <i>Nature Communications</i> , 2018 , 9, 2224	17.4	35
368	Matrix- and tensor-based recommender systems for the discovery of currently unknown inorganic compounds. <i>Physical Review Materials</i> , 2018 , 2,	3.2	29
367	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
366	Crystal growth of La Li TiO by the TSFZ method. <i>Royal Society Open Science</i> , 2018 , 5, 181445	3.3	4
365	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
364	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
363	Data-centric science for materials innovation. <i>MRS Bulletin</i> , 2018 , 43, 659-663	3.2	17
362	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
361	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
360	Thermoelectric phase diagram of the SrTiO ₃ BrNbO ₃ solid solution system. <i>Journal of Applied Physics</i> , 2017 , 121, 185102	2.5	15

359	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
358	Growth and superconducting properties of Cd-doped $\text{La}(\text{O},\text{F})\text{BiS}_2$ single crystals. <i>Solid State Communications</i> , 2017 , 261, 32-36	1.6	1
357	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
356	Mode decomposition based on crystallographic symmetry in the band-unfolding method. <i>Physical Review B</i> , 2017 , 95,	3.3	23
355	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
354	Band structure diagram paths based on crystallography. <i>Computational Materials Science</i> , 2017 , 128, 140-184	3.2	247
353	Thermodynamics of Meissner effect and flux pinning behavior in the bulk of single-crystal $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ ($x=0.09$). <i>Physical Review B</i> , 2017 , 96,	3.3	6
352	Direct evidence of hidden local spin polarization in a centrosymmetric superconductor LaO F BiS . <i>Nature Communications</i> , 2017 , 8, 1919	17.4	29
351	Materials Design Using First-Principles Calculations for Lithium-Ion Batteries. <i>Materia Japan</i> , 2017 , 56, 430-433	0.1	
350	DynaPhoPy: A code for extracting phonon quasiparticles from molecular dynamics simulations. <i>Computer Physics Communications</i> , 2017 , 221, 221-234	4.2	48
349	Comparison of approximations in density functional theory calculations: Energetics and structure of binary oxides. <i>Physical Review B</i> , 2017 , 96,	3.3	58
348	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
347	Representation of compounds for machine-learning prediction of physical properties. <i>Physical Review B</i> , 2017 , 95,	3.3	158
346	Superconductivity and its enhancement under high pressure in F -free single crystals of CeO BiS_2 . <i>Journal of Alloys and Compounds</i> , 2017 , 722, 467-473	5.7	17
345	Unconventional Superconductivity in the $\text{BiS}_{\{2\}}$ -Based Layered Superconductor $\text{NdO}_{\{0.71\}}\text{F}_{\{0.29\}}\text{BiS}_{\{2\}}$. <i>Physical Review Letters</i> , 2017 , 118, 167002	7.4	44
344	Manifestation of hopping conductivity and granularity within phase diagrams of LaO F BiS , Sr La F BiS and related BiS -based compounds. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 355702	1.8	1
343	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
342	Ce 4f electronic states of $\text{CeO}_{1-x}\text{F}_x\text{BiS}_2$ studied by soft x-ray photoemission spectroscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	5

341	First-principles screening of structural properties of intermetallic compounds on martensitic transformation. <i>Npj Computational Materials</i> , 2017 , 3,	10.9	9
340	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
339	Coexistence of superconductivity and charge-density wave in the quasi-one-dimensional material HfTe. <i>Scientific Reports</i> , 2017 , 7, 45217	4.9	27
338	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
337	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
336	Discovery of a Novel Sn(II)-Based Oxide β -SnMoO for Daylight-Driven Photocatalysis. <i>Advanced Science</i> , 2017 , 4, 1600246	13.6	18
335	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
334	New Approaches to Computational Materials Science Using First Principles Methods. <i>Materia Japan</i> , 2017 , 56, 234-237	0.1	
333	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
332	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
331	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
330	Low phonon conductivity of layered BiCuOS, BiCuOSe, and BiCuOTe from first principles. <i>Physical Review B</i> , 2016 , 94,	3.3	17
329	Stability of the f structure of transition elements. <i>Physical Review B</i> , 2016 , 93,	3.3	15
328	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
327	Comparative ARPES studies of LaOx _{1-x} BiS ₂ (x = 0.23 and 0.46). <i>Journal of Physics: Conference Series</i> , 2016 , 683, 012002	0.3	3
326	Discovery of earth-abundant nitride semiconductors by computational screening and high-pressure synthesis. <i>Nature Communications</i> , 2016 , 7, 11962	17.4	133
325	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	
324	Categorization of surface polarity from a crystallographic approach. <i>Computational Materials Science</i> , 2016 , 113, 221-230	3.2	31

323	Structure in steel: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 624-627	5.7	16
322	Pure H ₂ conduction in oxyhydrides. <i>Science</i> , 2016 , 351, 1314-7	33.3	110
321	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
320	Toward Materials Discovery with First-Principles Datasets and Learning Methods. <i>Springer Series in Materials Science</i> , 2016 , 173-186	0.9	
319	Impacts of first principles calculations in engineering ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 791-795	1	3
318	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
317	Floating Zone Growth and Characterization of (Ca Nd) ₂ AlO (~ 0.001) Single Crystals. <i>ACS Omega</i> , 2016 , 1, 1157-1163	3.9	4
316	Suppression of lattice thermal conductivity by mass-conserving cation mutation in multi-component semiconductors. <i>APL Materials</i> , 2016 , 4, 104809	5.7	8
315	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
314	Growth and Structure of Ce(O,F)SbS ₂ Single Crystals. <i>Crystal Growth and Design</i> , 2016 , 16, 3037-3042	3.5	17
313	Electronic Structure and Defect Chemistry of Tin(II) Complex Oxide SnNb ₂ O ₆ . <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9604-9611	3.8	19
312	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
311	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
310	Superconductivity in CeOBiS ₂ with cerium valence fluctuation. <i>Solid State Communications</i> , 2016 , 245, 11-14	1.6	23
309	First-principles calculations of oxygen vacancy formation and metallic behavior at a β -MnO ₂ grain boundary. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1726-34	9.5	38
308	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	12.6	63
307	Distributions of phonon lifetimes in Brillouin zones. <i>Physical Review B</i> , 2015 , 91,	3.3	607
306	Li Intercalation into a β -MnO ₂ Grain Boundary. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8125-31	9.5	14

305	Special quasirandom structure in heterovalent ionic systems. <i>Physical Review B</i> , 2015 , 91,	3.3	5
304	YB48 the metal rich boundary of YB66; crystal growth and thermoelectric properties. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 87, 221-227	3.9	16
303	C-axis electrical resistivity of PrO _{1-x} FaBiS ₂ single crystals. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 083101	1.4	20
302	First principles phonon calculations in materials science. <i>Scripta Materialia</i> , 2015 , 108, 1-5	5.6	4076
301	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
300	Growth of Cu(In,Ga)S ₂ single crystals using CsCl flux. <i>Journal of Crystal Growth</i> , 2015 , 412, 16-19	1.6	2
299	First-principles interatomic potentials for ten elemental metals via compressed sensing. <i>Physical Review B</i> , 2015 , 92,	3.3	52
298	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
297	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
296	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
295	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
294	Proton trapping in Y and Sn Co-doped BaZrO ₃ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10045-10051	1.3	24
293	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
292	Epitaxial growth of tin(II) niobate with a pyrochlore structure. <i>Journal of Crystal Growth</i> , 2015 , 416, 126-129	1.4	4
291	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
290	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
289	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
288	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

287	Zr coordination change during crystallization of MgO-Al ₂ O ₃ -Bi ₂ O ₃ -ZrO ₂ glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2014 , 384, 47-54	3.9	28
286	Photocatalytic activity of H-PbO ₂ -type TiO ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 822-826	5	12
285	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
284	Efficient determination of alloy ground-state structures. <i>Physical Review B</i> , 2014 , 90,	3.3	9
283	Oxygen vacancy formation and reduction properties of H-MnO ₂ grain boundaries and the potential for high electrochemical performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17776-84	9.5	36
282	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
281	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
280	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
279	Proton incorporation and trapping in ZrO ₂ grain boundaries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1400-1408	13	17
278	Accelerated discovery of cathode materials with prolonged cycle life for lithium-ion battery. <i>Nature Communications</i> , 2014 , 5, 4553	17.4	86
277	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
276	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
275	Surface design of alloy protection against CO-poisoning from first principles. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 355006	1.8	2
274	Protonic defects in yttria stabilized zirconia: incorporation, trapping and migration. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4814-22	3.6	13
273	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
272	Crystal structures of LaO _{1-x} FxBiS 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
271	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
270	Thermal physics of the lead chalcogenides PbS, PbSe, and PbTe from first principles. <i>Physical Review B</i> , 2014 , 89,	3.3	172

269	Atomic structure of luminescent centers in high-efficiency Ce-doped w-AlN single crystal. <i>Scientific Reports</i> , 2014 , 4, 3778	4.9	34
268	Superconducting Anisotropies of F-Substituted LaOBiSe ₂ Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 114709	1.5	22
267	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
266	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
265	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
264	Sparse representation for a potential energy surface. <i>Physical Review B</i> , 2014 , 90,	3.3	59
263	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
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111	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
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109	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
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