Alexander Chroneos

List of Publications by Year in Descending Order

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66 7,086 318 49 h-index g-index citations papers 6.55 7,994 3.5 331 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
318	Vaporliquid growth and properties of one dimensional PbO and PbO/SnO2 nanowires. <i>Materials Advances</i> , 2022 , 3, 1695-1702	3.3	O
317	Theoretical investigation of nitrogen-vacancy defects in silicon. AIP Advances, 2022, 12, 025112	1.5	0
316	Li-diffusion pathways in Zr2CO2 and Zr2CS2 MXenes using the Bond Valence Sum model. <i>Computational Materials Science</i> , 2022 , 201, 110868	3.2	1
315	Nitrogen-vacancy defects in germanium. AIP Advances, 2022, 12, 045110	1.5	O
314	Optical response, lithiation and charge transfer in Sn-based 211 MAX phases with electron localization function. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 2470-2479	5.5	O
313	Mg-ion diffusion on the surface of Ti3C2S2 MXene. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 166, 110713	3.9	0
312	Influence of high pressure on the temperature dependence of electrical resistivity of Y1-xPrxBa2Cu3O7-Esingle crystals. <i>Solid State Communications</i> , 2021 , 327, 114205	1.6	1
311	Preparation of hydrogen, fluorine and chlorine doped and co-doped titanium dioxide photocatalysts: a theoretical and experimental approach. <i>Scientific Reports</i> , 2021 , 11, 5700	4.9	5
310	Influence of Uniform Compression on the Temperature Dependence of the Pseudogap of Medium-Praseodymium-Doped Y 1 Pr x Ba 2 Cu 3 O 7 Single Crystals. <i>Journal of Low Temperature Physics</i> , 2021 , 203, 430-436	1.3	2
309	Effect of hydrogen on the electrical resistance of NbSe2 in a wide temperature range. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 13588-13593	2.1	1
308	Defects, diffusion and dopants in the ceramic mineral lime- Feldspar <i>Journal of Asian Ceramic Societies</i> , 2021 , 9, 570-577	2.4	2
307	Defects, diffusion, dopants and encapsulation of Na in NaZr2(PO4)3. <i>Materialia</i> , 2021 , 16, 101039	3.2	0
306	Defect and dopant properties in CaMnO3. <i>AIP Advances</i> , 2021 , 11, 055106	1.5	1
305	A high-entropy manganite in an ordered nanocomposite for long-term application in solid oxide cells. <i>Nature Communications</i> , 2021 , 12, 2660	17.4	15
304	Ru-Doped Single Walled Carbon Nanotubes as Sensors for SO2 and H2S Detection. <i>Chemosensors</i> , 2021 , 9, 120	4	4
303	Substitutional carbon-dioxygen center in irradiated silicon. <i>Materials Science in Semiconductor Processing</i> , 2021 , 127, 105661	4.3	1
302	One-dimensional yttrium silicide electride (Y5Si3:e¶for encapsulation of volatile fission products. <i>Journal of Applied Physics</i> , 2021 , 129, 245105	2.5	1

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301	Impact of oxygen on gallium doped germanium. AIP Advances, 2021, 11, 065122	1.5	1
300	Impact of boron and indium doping on the structural, electronic and optical properties of SnO. <i>Scientific Reports</i> , 2021 , 11, 13031	4.9	6
299	Defect Properties and Lithium Incorporation in Li2ZrO3. <i>Energies</i> , 2021 , 14, 3963	3.1	4
298	Interstitial lithium doping in SrTiO3. AIP Advances, 2021 , 11, 075029	1.5	О
297	Defects, diffusion and dopants in LiSnO. <i>Heliyon</i> , 2021 , 7, e07460	3.6	O
296	Insights into the physical properties of a new 211 MAX phase Nb2CuC. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 149, 109759	3.9	13
295	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. <i>Solar Rrl</i> , 2021 , 5, 2000555	7.1	13
294	Defect Processes in Halogen Doped SnO2. Applied Sciences (Switzerland), 2021, 11, 551	2.6	4
293	Effects of Al substitution by Si in TiAlC nanolaminate. Scientific Reports, 2021, 11, 3410	4.9	6
292	Structural, Electronic, and Optical Properties of Group 6 Doped Anatase TiO2: A Theoretical Approach. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1657	2.6	О
291	Behavior of Li-ion on the surface of Ti3C2 I (T = O, S, Se, F, Cl, Br) MXene: Diffusion barrier and conductive pathways. <i>Journal of Applied Physics</i> , 2021 , 130, 095101	2.5	2
290	Oxygen migration in doped BaGdInO4. Solid State Ionics, 2021, 369, 115729	3.3	
289	Self-diffusion in garnet-type LiLaZrO solid electrolytes. <i>Scientific Reports</i> , 2021 , 11, 451	4.9	8
288	Chemically stable new MAX phase VSnC: a damage and radiation tolerant TBC material <i>RSC Advances</i> , 2020 , 10, 43783-43798	3.7	12
287	Atomic structure and electronic properties of hydrogenated X (=C, Si, Ge, and Sn) doped TiO2: A theoretical perspective. <i>AIP Advances</i> , 2020 , 10, 115316	1.5	1
286	The Interstitial Carbon D ioxygen Center in Irradiated Silicon. <i>Crystals</i> , 2020 , 10, 1005	2.3	2
285	A perspective on MXenes: Their synthesis, properties, and recent applications. <i>Journal of Applied Physics</i> , 2020 , 128, 170902	2.5	30
284	Electronegativity and doping in SiGe alloys. Scientific Reports, 2020, 10, 7459	4.9	4

283	Self-Diffusion in Perovskite and Perovskite Related Oxides: Insights from Modelling. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2286	2.6	3
282	Electron irradiation and annealing effects on the pseudogap in optimally doped YBCO single crystals. <i>Modern Physics Letters B</i> , 2020 , 34, 2050151	1.6	
281	Defects and Dopants in CaFeSi2O6: Classical and DFT Simulations. <i>Energies</i> , 2020 , 13, 1285	3.1	6
280	Structural, defect, transport and dopant properties of AgNbO3. ChemNanoMat, 2020, 6, 1337-1345	3.5	3
279	Encapsulation and substitution of Fe in C12A7 (12CaO?7Al2O3). AIP Advances, 2020, 10, 015242	1.5	3
278	Computer modeling investigation of MgV2O4 for Mg-ion batteries. <i>Journal of Applied Physics</i> , 2020 , 127, 035106	2.5	2
277	Lithium Storage in Nanoporous Complex Oxide 12CaO🛮 Al2O3 (C12A7). Energies, 2020, 13, 1547	3.1	4
276	Fundamental Point Defect Properties in Ceramics 2020 , 50-73		
275	The Ci(SiI)n defect in neutron-irradiated silicon. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 930-934	2.1	1
274	Mayenite Electrides and Their Doped Forms for Oxygen Reduction Reaction in Solid Oxide Fuel Cells. <i>Energies</i> , 2020 , 13, 4978	3.1	
273	Elastic behaviour and radiation tolerance in Nb-based 211 MAX phases. <i>Materials Today Communications</i> , 2020 , 25, 101499	2.5	7
272	Atomic-scale studies of garnet-type Mg3Fe2Si3O12: Defect chemistry, diffusion and dopant properties. <i>Journal of Power Sources Advances</i> , 2020 , 3, 100016	3.3	
271	Defects, Diffusion and Dopants in Sillimanite. Minerals (Basel, Switzerland), 2020, 10, 857	2.4	
270	Composition variation and electron irradiation effects on the fluctuation conductivity in Y1\(\mathbb{P}\)rzBa2Cu3O7\(\mathbb{L}\)ingle crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 19429-7	19436	1
269	Electronic properties of the SnPbO alloy and band alignment of the SnO/PbO system: a DFT study. <i>Scientific Reports</i> , 2020 , 10, 16828	4.9	2
268	Defects and Calcium Diffusion in Wollastonite. <i>Chemistry</i> , 2020 , 2, 937-946	2.1	
267	Defect, transport, and dopant properties of andradite garnet Ca3Fe2Si3O12. <i>AIP Advances</i> , 2020 , 10, 075004	1.5	3
266	Encapsulation of volatile fission products in a two-dimensional dicalcium nitride electride. <i>Journal of Applied Physics</i> , 2020 , 128, 045112	2.5	1

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265	Hydrogen Adsorption on Ru-Encapsulated, -Doped and -Supported Surfaces of C60. <i>Surfaces</i> , 2020 , 3, 408-422	2.9	2
264	Influence of defects on anisotropy of electrical resistivity in (hbox {YBa}_2hbox {Cu}_3hbox {O}_{7-delta}). <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 7708-7714	2.1	2
263	Defects, Diffusion, and Dopants in LiTiO: Atomistic Simulation Study. <i>Materials</i> , 2019 , 12,	3.5	10
262	Defect, Diffusion and Dopant Properties of NaNiO2: Atomistic Simulation Study. <i>Energies</i> , 2019 , 12, 309	4.1	9
261	Lithium Doping of ZnO for High Efficiency and Stability Fullerene and Non-fullerene Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1663-1675	6.1	30
260	Grain Boundaries: Engineering Transport in Manganites by Tuning Local Nonstoichiometry in Grain Boundaries (Adv. Mater. 4/2019). <i>Advanced Materials</i> , 2019 , 31, 1970026	24	2
259	Encapsulation of cadmium telluride nanocrystals within single walled carbon nanotubes. <i>Inorganica Chimica Acta</i> , 2019 , 488, 246-254	2.7	5
258	Defect Chemistry and Li-ion Diffusion in LiRuO. Scientific Reports, 2019, 9, 550	4.9	27
257	Diffusion and Dopant Activation in Germanium: Insights from Recent Experimental and Theoretical Results. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2454	2.6	7
256	Effect of annealing on a pseudogap state in untwinned YBaCuO single crystals. <i>Scientific Reports</i> , 2019 , 9, 9274	4.9	41
255	Defect Chemistry and Na-Ion Diffusion in NaFe(PO) Cathode Material. <i>Materials</i> , 2019 , 12,	3.5	12
254	Technetium Encapsulation by A Nanoporous Complex Oxide 12CaOMAlO (C12A7). <i>Nanomaterials</i> , 2019 , 9,	5.4	9
253	Defect Process, Dopant Behaviour and Li Ion Mobility in the Li2MnO3 Cathode Material. <i>Energies</i> , 2019 , 12, 1329	3.1	10
252	Encapsulation of heavy metals by a nanoporous complex oxide 12CaO 17Al2O3. <i>Journal of Applied Physics</i> , 2019 , 125, 165103	2.5	6
251	Defects, dopants and Mg diffusion in MgTiO. Scientific Reports, 2019, 9, 4394	4.9	44
250	Defects, dopants and Li-ion diffusion in Li2SiO3. Solid State Ionics, 2019, 335, 61-66	3.3	25
249	The Effect of the Precursor Solution Pretreatment on the Properties and Microstructure of the SCS Final Nanomaterials. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1200	2.6	2
248	Na3V(PO4)2 cathode material for Na ion batteries: Defects, dopants and Na diffusion. <i>Solid State Ionics</i> , 2019 , 336, 75-79	3.3	15

247	Impact of local composition on the energetics of E-centres in SiGe alloys. Scientific Reports, 2019, 9, 10	849 9	3
246	Atomistic Simulations of the Defect Chemistry and Self-Diffusion of Li-ion in LiAlO2. <i>Energies</i> , 2019 , 12, 2895	3.1	5
245	Defect Chemistry, Sodium Diffusion and Doping Behaviour in NaFeO Polymorphs as Cathode Materials for Na-Ion Batteries: A Computational Study. <i>Materials</i> , 2019 , 12,	3.5	4
244	Theoretical Modeling of Defects, Dopants, and Diffusion in the Mineral Ilmenite. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 610	2.4	4
243	The encapsulation selectivity for anionic fission products imparted by an electride. <i>Scientific Reports</i> , 2019 , 9, 13612	4.9	12
242	Mg6MnO8 as a Magnesium-Ion Battery Material: Defects, Dopants and Mg-Ion Transport. <i>Energies</i> , 2019 , 12, 3213	3.1	8
241	A Computational Study of Defects, Li-Ion Migration and Dopants in Li2ZnSiO4 Polymorphs. <i>Crystals</i> , 2019 , 9, 563	2.3	5
240	Stability of Coinage Metals Interacting with C. <i>Nanomaterials</i> , 2019 , 9,	5.4	3
239	Defects and dopant properties of LiV(PO). Scientific Reports, 2019, 9, 333	4.9	29
238	Defects, Lithium Mobility and Tetravalent Dopants in the LiNbO Cathode Material. <i>Scientific Reports</i> , 2019 , 9, 2192	4.9	21
237	Cadmium trapping by C60 and B-, Si-, and N-doped C60. <i>Journal of Applied Physics</i> , 2019 , 125, 054302	2.5	6
236	Peculiarities of pseudogap in YPrBaCuO single crystals under pressure up to 1.7 GPa. <i>Scientific Reports</i> , 2019 , 9, 20424	4.9	27
235	Defect processes in F and Cl doped anatase TiO. Scientific Reports, 2019, 9, 19970	4.9	18
234	Effects of Precursor Concentration in Solvent and Nanomaterials Room Temperature Aging on the Growth Morphology and Surface Characteristics of NiNiO Nanocatalysts Produced by Dendrites Combustion during SCS. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4925	2.6	5
233	312 MAX Phases: Elastic Properties and Lithiation. <i>Materials</i> , 2019 , 12,	3.5	13
232	Li3SbO4 lithium-ion battery material: Defects, lithium ion diffusion and tetravalent dopants. <i>Materials Chemistry and Physics</i> , 2019 , 225, 34-41	4.4	20
231	Engineering Transport in Manganites by Tuning Local Nonstoichiometry in Grain Boundaries. <i>Advanced Materials</i> , 2019 , 31, e1805360	24	16
230	Learning Driver Braking Behavior Using Smartphones, Neural Networks and the Sliding Correlation Coefficient: Road Anomaly Case Study. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 65-74	6.1	23

229	Effect of electron irradiation on the fluctuation conductivity in YBa2Cu3O7Isingle crystals. Journal of Materials Science: Materials in Electronics, 2018, 29, 7725-7729	2.1	7
228	Lithium diffusion in LiFeO. <i>Scientific Reports</i> , 2018 , 8, 5832	4.9	28
227	Intrinsic defect processes and elastic properties of Ti3AC2 (A = Al, Si, Ga, Ge, In, Sn) MAX phases. Journal of Applied Physics, 2018 , 123, 025103	2.5	27
226	Enhanced oxygen diffusion in nano-structured ceria. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4743-4748	2.1	3
225	Parametric Optimisation of Solution Combustion Synthesis Catalysts and Their Application for the Aqueous Hydrogenation of Maleic Acid. <i>Catalysis Letters</i> , 2018 , 148, 764-778	2.8	6
224	The COV defect in neutron irradiated silicon: An infrared spectroscopy study. <i>Materials Science in Semiconductor Processing</i> , 2018 , 75, 283-287	4.3	1
223	Migration of sodium and lithium interstitials in anatase TiO2. Solid State Ionics, 2018, 315, 40-43	3.3	8
222	Isovalent doping and the CiOi defect in germanium. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4261-4265	2.1	1
221	Probabilistic kernel machines for predictive monitoring of weld residual stress in energy systems. Engineering Applications of Artificial Intelligence, 2018 , 71, 138-154	7.2	7
220	Physical properties and defect processes of M3SnC2 (M = Ti, Zr, Hf) MAX phases: Effect of M-elements. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 804-813	5.7	33
219	Defect pair formation in fluorine and nitrogen codoped TiO2. Journal of Applied Physics, 2018, 123, 161	51.03	7
218	The CC(Si) Defect in Silicon from a Density Functional Theory Perspective. <i>Materials</i> , 2018 , 11,	3.5	4
217	Defects and lithium migration in LiCuO. Scientific Reports, 2018, 8, 6754	4.9	26
216	A roadmap of strain in doped anatase TiO. Scientific Reports, 2018, 8, 12790	4.9	18
215	LiSnO as a Cathode Material for Lithium-ion Batteries: Defects, Lithium Ion Diffusion and Dopants. <i>Scientific Reports</i> , 2018 , 8, 12621	4.9	28
214	Review of Recent Studies on Solution Combustion Synthesis of Nanostructured Catalysts. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800047	3.5	48
213	Ab initio modeling of MAX phase solid solutions using the special quasirandom structure approach. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1173-1180	3.6	10
212	Thermodynamic modelling of fast dopant diffusion in Si. <i>Journal of Applied Physics</i> , 2018 , 123, 161527	2.5	4

211	Defect process and lithium diffusion in Li2TiO3. Solid State Ionics, 2018, 327, 93-98	3.3	35
210	Influence of Preheating Temperature on Solution Combustion Synthesis of NiNiO Nanocomposites: Mathematical Model and Experiment. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2018 , 27, 207-215	0.7	6
209	Defects, Dopants and Sodium Mobility in NaMnSiO. Scientific Reports, 2018, 8, 14669	4.9	29
208	Defects, Dopants and Lithium Mobility in Li V (P O) (PO). Scientific Reports, 2018, 8, 8140	4.9	21
207	Mg diffusion in Si on a thermodynamic basis. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 12022-12027	2.1	7
206	Solution combustion synthesis of nano-catalysts with a hierarchical structure. <i>Journal of Catalysis</i> , 2018 , 364, 112-124	7.3	23
205	Charge and heat transfer of the Ti3AlC2 MAX phase. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 11478-11481	2.1	5
204	Computational study of energy materials 2018 , 263-281		
203	Influence of atomic structure on the nano-nickel-based catalyst activity produced by solution combustion synthesis in the hydrogenation of maleic acid. <i>Journal of Catalysis</i> , 2017 , 348, 9-21	7.3	15
202	Intrinsic Defects and H Doping in WO. Scientific Reports, 2017 , 7, 40882	4.9	43
201	IR studies of the oxygen and carbon precipitation processes in electron irradiated tin-doped silicon. Journal of Materials Science: Materials in Electronics, 2017 , 28, 10298-10312	2.1	2
200		2.1 3.6	1
	Journal of Materials Science: Materials in Electronics, 2017, 28, 10298-10312 O vacancy formation in (Pr/Gd)BaCoO and the role of antisite defects. Physical Chemistry Chemical		
200	Journal of Materials Science: Materials in Electronics, 2017, 28, 10298-10312 O vacancy formation in (Pr/Gd)BaCoO and the role of antisite defects. Physical Chemistry Chemical Physics, 2017, 19, 11455-11459 Different diffusion mechanisms of oxygen in ReBa 2 Cu 3 O 7 (Re = Y, Ho) single crystals. Physica	3.6	1
200 199	Journal of Materials Science: Materials in Electronics, 2017, 28, 10298-10312 O vacancy formation in (Pr/Gd)BaCoO and the role of antisite defects. Physical Chemistry Chemical Physics, 2017, 19, 11455-11459 Different diffusion mechanisms of oxygen in ReBa 2 Cu 3 O 7 (Re = Y, Ho) single crystals. Physica C: Superconductivity and Its Applications, 2017, 536, 26-29 Diffusion of the superconducting transition in HTSC. Journal of Materials Science: Materials in	3.6 1.3	1
200199198	O vacancy formation in (Pr/Gd)BaCoO and the role of antisite defects. Physical Chemistry Chemical Physics, 2017, 19, 11455-11459 Different diffusion mechanisms of oxygen in ReBa 2 Cu 3 O 7⅓ (Re = Y, Ho) single crystals. Physica C: Superconductivity and Its Applications, 2017, 536, 26-29 Diffusion of the superconducting transition in HTSC. Journal of Materials Science: Materials in Electronics, 2017, 28, 10862-10865 Detecting anomalies in time series data via a deep learning algorithm combining wavelets, neural	3.6 1.3 2.1	14
200199198197	O vacancy formation in (Pr/Gd)BaCoO and the role of antisite defects. Physical Chemistry Chemical Physics, 2017, 19, 11455-11459 Different diffusion mechanisms of oxygen in ReBa 2 Cu 3 O 7 (Re = Y, Ho) single crystals. Physica C: Superconductivity and Its Applications, 2017, 536, 26-29 Diffusion of the superconducting transition in HTSC. Journal of Materials Science: Materials in Electronics, 2017, 28, 10862-10865 Detecting anomalies in time series data via a deep learning algorithm combining wavelets, neural networks and Hilbert transform. Expert Systems With Applications, 2017, 85, 292-304 Synthesis and physical properties of (Zr1 (Ti), Tix) 3AlC2 MAX phases. Journal of the American Ceramic	3.6 1.3 2.1 7.8	1 14 56

193	The CiOi(SiI)2 defect in silicon: density functional theory calculations. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 10295-10297	2.1	6
192	Defect processes of M3AlC2 (M = V, Zr, Ta, Ti) MAX phases. <i>Solid State Communications</i> , 2017 , 261, 54-56	51.6	6
191	Tin diffusion in germanium: a thermodynamic approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 9936-9940	2.1	4
190	Experimental synthesis and density functional theory investigation of radiation tolerance of Zr3(Al1-xSix)C2 MAX phases. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1377-1387	3.8	33
189	Modelling solid solutions with cluster expansion, special quasirandom structures, and thermodynamic approaches. <i>Applied Physics Reviews</i> , 2017 , 4, 041301	17.3	15
188	Diffusion coalescence in B a2Cu3O7\(\text{\text{B}}\)single crystals under the application of hydrostatic pressure. Materials Research Express, 2017 , 4, 096001	1.7	3
187	Diffusion in energy materials: Governing dynamics from atomistic modelling. <i>Applied Physics Reviews</i> , 2017 , 4, 031305	17.3	15
186	Stress-enhanced lithiation in MAX compounds for battery applications. <i>Applied Materials Today</i> , 2017 , 9, 192-195	6.6	8
185	Defect processes in Li2ZrO3: insights from atomistic modelling. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 11789-11793	2.1	5
184	Composition and temperature dependence of self-diffusion in Si Ge alloys. <i>Scientific Reports</i> , 2017 , 7, 1374	4.9	20
183	Impact of isovalent doping on the formation of the C i O i (Si I) n defects in silicon. <i>Solid State Communications</i> , 2017 , 263, 19-22	1.6	8
182	Structural and optical properties of the recently synthesized (Zr3\(\mathbb{Z}\) Ti x)AlC2 MAX phases. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3386-3393	2.1	19
181	Gold and silver diffusion in germanium: a thermodynamic approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 1966-1970	2.1	3
180	Hydrogen and nitrogen codoping of anatase TiO for efficiency enhancement in organic solar cells. <i>Scientific Reports</i> , 2017 , 7, 17839	4.9	18
179	In situ trap properties in CCDs: the donor level of the silicon divacancy. <i>Journal of Instrumentation</i> , 2017 , 12, P01025-P01025	1	6
178	Toward Defect Engineering Strategies to Optimize Energy and Electronic Materials. <i>Applied Sciences</i> (Switzerland), 2017 , 7, 674	2.6	11
177	Relaxation of the electric resistance in YBa2Cu3O7\(\mathbb{B}\) single crystals at room temperature. <i>Modern Physics Letters B</i> , 2017 , 31, 1750179	1.6	
176	Fluctuation conductivity and possible pseudogap state in FeAs-based superconductor EuFeAsO0.85F0.15. <i>Materials Research Express</i> , 2016 , 3, 076001	1.7	14

175	Oxygen self-diffusion in ThO2under pressure: connecting point defect parameters with bulk properties. <i>Materials Research Express</i> , 2016 , 3, 065501	1.7	2
174	Physical properties of the recently discovered Zr2(Al1\(\mathbb{B}\) Bi x)C MAX phases. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 11925-11933	2.1	45
173	Investigation of oxygen self-diffusion in PuO2 by combining molecular dynamics with thermodynamic calculations. <i>RSC Advances</i> , 2016 , 6, 103641-103649	3.7	5
172	Infrared studies of the evolution of the CiOi(SiI) defect in irradiated Si upon isothermal anneals. <i>Journal of Applied Physics</i> , 2016 , 119, 125704	2.5	7
171	CO2 capture by Li-functionalized silicene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 458-46	512.5	2
170	Modification of superconducting and resistive properties of HoBa2Cu3O7 Bingle crystals under application-removal of high hydrostatic pressure. <i>Modern Physics Letters B</i> , 2016 , 30, 1650188	1.6	16
169	Relative concentrations of carbon related defects in silicon. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 11268-11272	2.1	1
168	Controlling A-center concentration in silicon through isovalent doping: mass action analysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 4385-4391	2.1	3
167	Silicene/germanene on MgX2 (X = Cl, Br, and I) for Li-ion battery applications. <i>Nanoscale</i> , 2016 , 8, 7272-	7 7.7	36
166	Attempts to synthesise quaternary MAX phases (Zr,M)2AlC and Zr2(Al,A)C as a way to approach Zr2AlC. <i>Materials Research Letters</i> , 2016 , 4, 137-144	7.4	54
165	Infrared study of defects in nitrogen-doped electron irradiated silicon. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2054-2061	2.1	5
164	Synthesis and DFT investigation of new bismuth-containing MAX phases. <i>Scientific Reports</i> , 2016 , 6, 188	3 2,9 .9	82
163	Activation volumes of oxygen self-diffusion in fluorite structured oxides. <i>Materials Research Express</i> , 2016 , 3, 105504	1.7	2
162	Connecting point defect parameters with bulk properties to describe diffusion in solids. <i>Applied Physics Reviews</i> , 2016 , 3, 041304	17.3	23
161	A thermodynamic approach of self- and hetero-diffusion in GaAs: connecting point defect parameters with bulk properties. <i>RSC Advances</i> , 2016 , 6, 53324-53330	3.7	22
160	S-functionalized MXenes as electrode materials for Li-ion batteries. <i>Applied Materials Today</i> , 2016 , 5, 19-24	6.6	64
159	A thermodynamic approach to self-diffusion in silicon: Evidence of a single diffusion mechanism?. <i>Materials Chemistry and Physics</i> , 2016 , 181, 204-208	4.4	17
158	Thermodynamic calculations of oxygen self-diffusion in mixed-oxide nuclear fuels. <i>RSC Advances</i> , 2016 , 6, 74018-74027	3.7	11

(2015-2015)

157	Modeling self-diffusion in UO2 and ThO2 by connecting point defect parameters with bulk properties. <i>Solid State Ionics</i> , 2015 , 274, 1-3	3.3	64
156	Palladium diffusion in germanium. Journal of Materials Science: Materials in Electronics, 2015, 26, 3787-	3 <i>7</i> 28 9	8
155	Copper diffusion in germanium: connecting point defect parameters with bulk properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 2693-2696	2.1	10
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