

# David O Scanlon

## List of Publications by Citations

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246  
papers

13,882  
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63  
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110  
g-index

269  
ext. papers

16,119  
ext. citations

7.8  
avg, IF

7  
L-index

#	Paper	IF	Citations
246	Band alignment of rutile and anatase TiO <sub>2</sub> . <i>Nature Materials</i> , <b>2013</b> , 12, 798-801	27	1656
245	On the application of the tolerance factor to inorganic and hybrid halide perovskites: a revised system. <i>Chemical Science</i> , <b>2016</b> , 7, 4548-4556	9.4	507
244	Theoretical and Experimental Study of the Electronic Structures of MoO <sub>3</sub> and MoO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4636-4645	3.8	435
243	Self-regulation mechanism for charged point defects in hybrid halide perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1791-4	16.4	394
242	Can Pb-Free Halide Double Perovskites Support High-Efficiency Solar Cells?. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 949-955	20.1	301
241	Beyond methylammonium lead iodide: prospects for the emergent field of ns containing solar absorbers. <i>Chemical Communications</i> , <b>2016</b> , 53, 20-44	5.8	280
240	Defect Tolerance to Intolerance in the Vacancy-Ordered Double Perovskite Semiconductors Cs <sub>2</sub> SnI <sub>6</sub> and Cs <sub>2</sub> TeI <sub>6</sub> . <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8453-64	16.4	264
239	Acceptor levels in p-type Cu(2)O: rationalizing theory and experiment. <i>Physical Review Letters</i> , <b>2009</b> , 103, 096405	7.4	237
238	Controlling bulk conductivity in topological insulators: key role of anti-site defects. <i>Advanced Materials</i> , <b>2012</b> , 24, 2154-8	24	227
237	Interplay of Orbital and Relativistic Effects in Bismuth Oxyhalides: BiOF, BiOCl, BiOBr, and BiOI. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1980-1984	9.6	225
236	n-Type doped transparent conducting binary oxides: an overview. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 6946-6961	7.1	214
235	Bismuth oxyhalides: synthesis, structure and photoelectrochemical activity. <i>Chemical Science</i> , <b>2016</b> , 7, 4832-4841	9.4	197
234	An ab initio Study of Reduction of V <sub>2</sub> O <sub>5</sub> through the Formation of Oxygen Vacancies and Li Intercalation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 9903-9911	3.8	181
233	Understanding the p-type defect chemistry of CuCrO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3655		163
232	Role of Lattice Distortions in the Oxygen Storage Capacity of Divalently Doped CeO <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4464-4468	9.6	158
231	Defect engineering of BaSnO <sub>3</sub> for high-performance transparent conducting oxide applications. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	151
230	Sources of conductivity and doping limits in CdO from hybrid density functional theory. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 15065-72	16.4	149

229	Small polarons in Nb- and Ta-doped rutile and anatase TiO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5175		143
228	Band gap and work function tailoring of SnO <sub>2</sub> for improved transparent conducting ability in photovoltaics. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1467-1475	7.1	141
227	On the possibility of p-type SnO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 25236		134
226	sumo: Command-line tools for plotting and analysis of periodic ab initio calculations. <i>Journal of Open Source Software</i> , <b>2018</b> , 3, 717	5.2	127
225	Analysis of Intrinsic Defects in CeO <sub>2</sub> Using a Koopmans-Like GGA+U Approach. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 2443-2452	3.8	125
224	Modeling the polaronic nature of p-type defects in Cu <sub>2</sub> O: the failure of GGA and GGA + U. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 124703	3.9	113
223	Undoped n-Type Cu <sub>2</sub> O: Fact or Fiction?. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 2582-2585	6.4	111
222	Origin of the Bipolar Doping Behavior of SnO from X-ray Spectroscopy and Density Functional Theory. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3114-3123	9.6	107
221	Conductivity Limits in CuAlO <sub>2</sub> from Screened-Hybrid Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3195-3199	6.4	102
220	Effect of Cr substitution on the electronic structure of CuAl <sub>1-x</sub> Cr <sub>x</sub> O <sub>2</sub> . <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	102
219	(CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> Pb(SCN) <sub>2</sub> I <sub>2</sub> : a more stable structural motif for hybrid halide photovoltaics?. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 4594-8	6.4	100
218	Bandgap engineering of ZnSnP <sub>2</sub> for high-efficiency solar cells. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 251911	3.4	99
217	Growth, disorder, and physical properties of ZnSnN <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2013</b> , 103, 042109	3.4	98
216	Relativistic electronic structure and band alignment of BiSI and BiSeI: candidate photovoltaic materials. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2060-2068	13	97
215	Vibronic Structure in Room Temperature Photoluminescence of the Halide Perovskite CsBiBr. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 42-45	5.1	95
214	Understanding conductivity anomalies in Cu(I)-based delafossite transparent conducting oxides: Theoretical insights. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 024707	3.9	93
213	Multifunctional P-Doped TiO <sub>2</sub> Films: A New Approach to Self-Cleaning, Transparent Conducting Oxide Materials. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3234-3242	9.6	92
212	Polymorph Engineering of TiO <sub>2</sub> : Demonstrating How Absolute Reference Potentials Are Determined by Local Coordination. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3844-3851	9.6	92

211	Surface Sensitivity in Lithium-Doping of MgO: A Density Functional Theory Study with Correction for on-Site Coulomb Interactions. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7971-7979	3.8	91
210	Oxidation states and ionicity. <i>Nature Materials</i> , <b>2018</b> , 17, 958-964	27	91
209	Perspectives and Design Principles of Vacancy-Ordered Double Perovskite Halide Semiconductors. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1184-1195	9.6	89
208	Understanding the p-Type Conduction Properties of the Transparent Conducting Oxide CuBO <sub>2</sub> : A Density Functional Theory Analysis. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4568-4576	9.6	89
207	Perovskite-Inspired Photovoltaic Materials: Toward Best Practices in Materials Characterization and Calculations. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1964-1988	9.6	87
206	Self-Regulation Mechanism for Charged Point Defects in Hybrid Halide Perovskites. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1811-1814	3.6	87
205	Geometry, Electronic Structure, and Bonding in CuMCh <sub>2</sub> (M = Sb, Bi; Ch = S, Se): Alternative Solar Cell Absorber Materials?. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7334-7340	3.8	87
204	Direct Observation of Electrostatically Driven Band Gap Renormalization in a Degenerate Perovskite Transparent Conducting Oxide. <i>Physical Review Letters</i> , <b>2016</b> , 116, 027602	7.4	83
203	Interface stoichiometry control to improve device voltage and modify band alignment in ZnO/Cu <sub>2</sub> O heterojunction solar cells. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3606-3610	35.4	82
202	X-ray spectroscopic study of the electronic structure of CuCrO <sub>2</sub> . <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	82
201	Solution Processing Route to Multifunctional Titania Thin Films: Highly Conductive and Photocatalytically Active Nb:TiO <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5075-5085	15.6	81
200	Understanding the electronic structure of IrO <sub>2</sub> using hard-X-ray photoelectron spectroscopy and density-functional theory. <i>Physical Review Letters</i> , <b>2014</b> , 112, 117601	7.4	80
199	Tin Monoxide: Structural Prediction from First Principles Calculations with van der Waals Corrections. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19916-19924	3.8	79
198	Growth and properties of GaSbBi alloys. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 142106	3.4	78
197	Convergence of density and hybrid functional defect calculations for compound semiconductors. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	77
196	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO <sub>3</sub> /TiO <sub>2</sub> Heterojunction Films: A Computational and Experimental Study. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605413	15.6	76
195	Nature of the band gap and origin of the conductivity of PbO <sub>2</sub> revealed by theory and experiment. <i>Physical Review Letters</i> , <b>2011</b> , 107, 246402	7.4	76
194	Band Gap Dependence on Cation Disorder in ZnSnN <sub>2</sub> Solar Absorber. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501462	21.8	75

193	La-doped BaSnO <sub>3</sub> Degenerate perovskite transparent conducting oxide: Evidence from synchrotron x-ray spectroscopy. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 042105	3.4	74
192	The origin of the enhanced oxygen storage capacity of Ce(1-x)(Pd/Pt)(x)O <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 4279-84	3.6	74
191	Anharmonicity and Octahedral Tilting in Hybrid Vacancy-Ordered Double Perovskites. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 472-483	9.6	70
190	The electronic structure of the antimony chalcogenide series: Prospects for optoelectronic applications. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 213, 116-125	3.3	68
189	Scalable route to CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite thin films by aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9071-9073	13	67
188	(Cu <sub>2</sub> S <sub>2</sub> )(Sr <sub>3</sub> Sc <sub>2</sub> O <sub>5</sub> ) <sub>2</sub> A Layered, Direct Band Gap, p-Type Transparent Conducting Oxychalcogenide: A Theoretical Analysis.. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 5435-5442	9.6	66
187	Electronic structure of mixed-valence silver oxide AgO from hybrid density-functional theory. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	64
186	The vapour phase detection of explosive markers and derivatives using two fluorescent metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6351-6359	13	63
185	Reactivity on the (110) Surface of Ceria: A GGA+U Study of Surface Reduction and the Adsorption of CO and NO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 11095-11103	3.8	63
184	Tolerance Factor and Cooperative Tilting Effects in Vacancy-Ordered Double Perovskite Halides. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3909-3919	9.6	63
183	Electronic Structures of Antimony Oxides. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 14759-14769	3.8	62
182	Origin of High Mobility in Molybdenum-Doped Indium Oxide. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2788-2796	9.6	61
181	Elucidating the Nature of Pseudo Jahn-Teller Distortions in Li <sub>x</sub> MnPO <sub>4</sub> : Combining Density Functional Theory with Soft and Hard X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10383-10396	3.8	61
180	Band gap anomalies of the ZnM <sub>2</sub> (III)O <sub>4</sub> (M(III)=Co, Rh, Ir) spinels. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 9667-75	3.6	60
179	Understanding the defect chemistry of tin monoxide. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 8194	7.1	59
178	Enhanced electrical properties of antimony doped tin oxide thin films deposited via aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7257-7266	7.1	59
177	Electron excess in alkaline earth sub-nitrides: 2D electron gas or 3D electride?. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3525	7.1	58
176	Cu <sub>3</sub> MCh <sub>3</sub> (M = Sb, Bi; Ch = S, Se) as candidate solar cell absorbers: insights from theory. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 15477-84	3.6	58

175	Determination of the nitrogen vacancy as a shallow compensating center in GaN doped with divalent metals. <i>Physical Review Letters</i> , <b>2015</b> , 114, 016405	7.4	58
174	Automated procedure to determine the thermodynamic stability of a material and the range of chemical potentials necessary for its formation relative to competing phases and compounds. <i>Computer Physics Communications</i> , <b>2014</b> , 185, 330-338	4.2	58
173	Self-Compensation in Transparent Conducting F-Doped SnO <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1701900	15.6	56
172	Exploiting Excited-State Aromaticity To Design Highly Stable Singlet Fission Materials. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13867-13876	16.4	55
171	The complex defect chemistry of antimony selenide. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10739-10744	14.4	54
170	Enhanced Photoresponse of FeS Films: The Role of Marcasite-Pyrite Phase Junctions. <i>Advanced Materials</i> , <b>2016</b> , 28, 9602-9607	24	53
169	Stability of the M2 phase of vanadium dioxide induced by coherent epitaxial strain. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	51
168	Pilot-scale continuous synthesis of a vanadium-doped LiFePO <sub>4</sub> /C nanocomposite high-rate cathodes for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 302, 410-418	8.9	51
167	Electronic structures of silver oxides. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	51
166	Electron Counting in Solids: Oxidation States, Partial Charges, and Ionicity. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 2074-2075	6.4	50
165	First-principles insights into tin-based two-dimensional hybrid halide perovskites for photovoltaics. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5652-5660	13	50
164	Valence-band density of states and surface electron accumulation in epitaxial SnO <sub>2</sub> films. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	50
163	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO Thin Films: Theory and Experiment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15348-15361	9.5	49
162	The Nature of the Molybdenum Surface in Iron Molybdate. The Active Phase in Selective Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26155-26161	3.8	49
161	Engineering Valence Band Dispersion for High Mobility p-Type Semiconductors. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2402-2413	9.6	47
160	Perovskite-inspired materials for photovoltaics and beyond-from design to devices. <i>Nanotechnology</i> , <b>2021</b> , 32, 132004	3.4	47
159	Uncovering the complex behavior of hydrogen in Cu <sub>2</sub> O. <i>Physical Review Letters</i> , <b>2011</b> , 106, 186403	7.4	46
158	Deep vs shallow nature of oxygen vacancies and consequent n-type carrier concentrations in transparent conducting oxides. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	46

157	Understanding doping anomalies in degenerate p-type semiconductor LaCuOSe. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 3429-3438	7.1	45
156	Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO <sub>2</sub> Thin Films. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1353-1361	9.6	43
155	Quasi-particle electronic band structure and alignment of the V-VI-VII semiconductors SbSI, SbSBr, and SbSeI for solar cells. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 112103	3.4	43
154	A novel laboratory-based hard X-ray photoelectron spectroscopy system. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 073105	1.7	42
153	Chemical and structural indicators for large redox potentials in Fe-based positive electrode materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10832-9	9.5	40
152	Core Levels, Band Alignments, and Valence-Band States in CuSbS for Solar Cell Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 41916-41926	9.5	40
151	Understanding conductivity in SrCu <sub>2</sub> O <sub>2</sub> : stability, geometry and electronic structure of intrinsic defects from first principles. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1086-1096		39
150	Defect Engineering of Earth-Abundant Solar Absorbers BiSI and BiSeI. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3827-3835	9.6	39
149	Dynamical response and instability in ceria under lattice expansion. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	38
148	Transparent conducting n-type ZnO:Sc Synthesis, optoelectronic properties and theoretical insight. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 7585-7597	7.1	38
147	Antiferromagnetism at T>500K in the layered hexagonal ruthenate SrRu <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	38
146	Electronic and defect properties of (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> Pb(SCN) <sub>2</sub> I <sub>2</sub> analogues for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7845-7853	13	37
145	Electronic structure and band alignment of zinc nitride, Zn <sub>3</sub> N <sub>2</sub> . <i>RSC Advances</i> , <b>2014</b> , 4, 3306-3311	3.7	37
144	Nature of the band gap of Ti <sub>2</sub> O <sub>3</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	37
143	Chemical Vapor Deposition Synthesis and Optical Properties of NbO Thin Films with Hybrid Functional Theoretical Insight into the Band Structure and Band Gaps. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 18031-18038	9.5	36
142	. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 544-551	3.7	36
141	Sensing and Discrimination of Explosives at Variable Concentrations with a Large-Pore MOF as Part of a Luminescent Array. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 11618-11626	9.5	35
140	Isotype Heterojunction Solar Cells Using n-Type Sb <sub>2</sub> Se <sub>3</sub> Thin Films. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2621-2630	9.6	34

139	Interlayer cation exchange stabilizes polar perovskite surfaces. <i>Advanced Materials</i> , <b>2014</b> , 26, 7252-6	24	34
138	Intrinsic ferromagnetism in CeO(2): dispelling the myth of vacancy site localization mediated superexchange. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 405502	1.8	34
137	Narrow-band anisotropic electronic structure of ReS <sub>2</sub> . <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	33
136	Interfacial Effects in $\text{Li}_x\text{VOPO}_4$ and Evolution of the Electronic Structure. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8211-8219	9.6	33
135	The electronic structure of sulvanite structured semiconductors Cu <sub>3</sub> MCh <sub>4</sub> (M = V, Nb, Ta; Ch = S, Se, Te): prospects for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12236-12244	7.1	33
134	Combinatorial Atmospheric Pressure Chemical Vapor Deposition of F:TiO <sub>2</sub> ; the Relationship between Photocatalysis and Transparent Conducting Oxide Properties. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1758-1771	15.6	33
133	Comparative study of bandwidths in copper delafossites from x-ray emission spectroscopy. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	33
132	An assessment of silver copper sulfides for photovoltaic applications: theoretical and experimental insights. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12648-12657	13	32
131	Anion Distribution, Structural Distortion, and Symmetry-Driven Optical Band Gap Bowing in Mixed Halide CsSnX Vacancy Ordered Double Perovskites. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9430-9444	9.6	32
130	Computational testing of trivalent dopants in CeO <sub>2</sub> for improved high- $\epsilon$ dielectric behaviour. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 1093-1098	7.1	30
129	A GGA+U study of the reduction of ceria surfaces and their partial reoxidation through NO <sub>2</sub> adsorption. <i>Molecular Simulation</i> , <b>2009</b> , 35, 577-583	2	30
128	Resonant doping for high mobility transparent conductors: the case of Mo-doped In <sub>2</sub> O <sub>3</sub> . <i>Materials Horizons</i> , <b>2020</b> , 7, 236-243	14.4	30
127	Donor and acceptor characteristics of native point defects in GaN. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 335104	3	28
126	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1964-1973	9.6	28
125	Bulk ionization potentials and band alignments from three-dimensional periodic calculations as demonstrated on rocksalt oxides. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	28
124	Anionic order and band gap engineering in vacancy ordered triple perovskites. <i>Chemical Communications</i> , <b>2019</b> , 55, 3164-3167	5.8	28
123	Atypically small temperature-dependence of the direct band gap in the metastable semiconductor copper nitride Cu <sub>3</sub> N. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	27
122	Phosphorus doped SnO thin films for transparent conducting oxide applications: synthesis, optoelectronic properties and computational models. <i>Chemical Science</i> , <b>2018</b> , 9, 7968-7980	9.4	27



121	Understanding the defect chemistry of alkali metal strontium silicate solid solutions: insights from experiment and theory. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17919-17924	13	27
120	Morphological Features and Band Bending at Nonpolar Surfaces of ZnO. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11598-11611	3.8	27
119	Bandgap lowering in mixed alloys of Cs <sub>2</sub> Ag(SbxBi <sub>1-x</sub> )Br <sub>6</sub> double perovskite thin films. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21780-21788	13	26
118	Electronic and surface properties of Ga-doped In <sub>2</sub> O <sub>3</sub> ceramics. <i>Applied Surface Science</i> , <b>2015</b> , 349, 970-987	9.7	25
117	The nature of oxygen states on the surfaces of CeO <sub>2</sub> and La-doped CeO <sub>2</sub> . <i>Chemical Physics Letters</i> , <b>2014</b> , 608, 239-243	2.5	25
116	Galore: Broadening and weighting for simulation of photoelectron spectroscopy. <i>Journal of Open Source Software</i> , <b>2018</b> , 3, 773	5.2	25
115	Identifying Raman modes of Sb <sub>2</sub> Se <sub>3</sub> and their symmetries using angle-resolved polarised Raman spectra. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8337-8344	13	25
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