

Jacky Even

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326
ext. papers

18,817
ext. citations

7.6
avg, IF

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L-index

#	Paper	IF	Citations
281	High-efficiency two-dimensional Ruddlesden-Popper perovskite solar cells. <i>Nature</i> , 2016 , 536, 312-6	50.4	2161
280	Importance of Spin-Orbit Coupling in Hybrid Organic/Inorganic Perovskites for Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2999-3005	6.4	853
279	Extremely efficient internal exciton dissociation through edge states in layered 2D perovskites. <i>Science</i> , 2017 , 355, 1288-1292	33.3	648
278	Light-activated photocurrent degradation and self-healing in perovskite solar cells. <i>Nature Communications</i> , 2016 , 7, 11574	17.4	461
277	Hybrid Dion-Jacobson 2D Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3775-3783	16.4	426
276	Light-induced lattice expansion leads to high-efficiency perovskite solar cells. <i>Science</i> , 2018 , 360, 67-70	33.3	413
275	Analysis of Multivalley and Multibandgap Absorption and Enhancement of Free Carriers Related to Exciton Screening in Hybrid Perovskites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11566-11572	3.8	404
274	Scaling law for excitons in 2D perovskite quantum wells. <i>Nature Communications</i> , 2018 , 9, 2254	17.4	372
273	Anharmonicity and Disorder in the Black Phases of Cesium Lead Iodide Used for Stable Inorganic Perovskite Solar Cells. <i>ACS Nano</i> , 2018 , 12, 3477-3486	16.7	359
272	Quantum and Dielectric Confinement Effects in Lower-Dimensional Hybrid Perovskite Semiconductors. <i>Chemical Reviews</i> , 2019 , 119, 3140-3192	68.1	303
271	High Members of the 2D Ruddlesden-Popper Halide Perovskites: Synthesis, Optical Properties, and Solar Cells of (CH ₃ (CH ₂) ₃ NH ₃) ₂ (CH ₃ NH ₃) ₄ Pb ₅ I ₁₆ . <i>Chem</i> , 2017 , 2, 427-440	16.2	285
270	Photophysics of Organic-Inorganic Hybrid Lead Iodide Perovskite Single Crystals. <i>Advanced Functional Materials</i> , 2015 , 25, 2378-2385	15.6	277
269	Advances and Promises of Layered Halide Hybrid Perovskite Semiconductors. <i>ACS Nano</i> , 2016 , 10, 9776-9786	16.8	276
268	Tunable White-Light Emission in Single-Cation-Templated Three-Layered 2D Perovskites (CH ₃ CH ₂ NH ₃)PbBrCl. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11956-11963	16.4	254
267	Ultrahigh sensitivity of methylammonium lead tribromide perovskite single crystals to environmental gases. <i>Science Advances</i> , 2016 , 2, e1600534	14.3	251
266	New Type of 2D Perovskites with Alternating Cations in the Interlayer Space, (C(NH ₃))(CH ₂ NH ₂)PbI ₃ : Structure, Properties, and Photovoltaic Performance. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16297-16309	16.4	251
265	Rashba and Dresselhaus Effects in Hybrid Organic-Inorganic Perovskites: From Basics to Devices. <i>ACS Nano</i> , 2015 , 9, 11557-67	16.7	232

264	Understanding Film Formation Morphology and Orientation in High Member 2D Ruddlesden-Popper Perovskites for High-Efficiency Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1700979	21.8	231
263	Structural Diversity in White-Light-Emitting Hybrid Lead Bromide Perovskites. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13078-13088	16.4	214
262	Stable Light-Emitting Diodes Using Phase-Pure Ruddlesden-Popper Layered Perovskites. <i>Advanced Materials</i> , 2018 , 30, 1704217	24	210
261	Polaron Stabilization by Cooperative Lattice Distortion and Cation Rotations in Hybrid Perovskite Materials. <i>Nano Letters</i> , 2016 , 16, 3809-16	11.5	203
260	Solid-State Physics Perspective on Hybrid Perovskite Semiconductors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10161-10177	3.8	175
259	Understanding quantum confinement of charge carriers in layered 2D hybrid perovskites. <i>ChemPhysChem</i> , 2014 , 15, 3733-41	3.2	175
258	Photoexcitation dynamics in solution-processed formamidinium lead iodide perovskite thin films for solar cell applications. <i>Light: Science and Applications</i> , 2016 , 5, e16056	16.7	167
257	Neutral and Charged Exciton Fine Structure in Single Lead Halide Perovskite Nanocrystals Revealed by Magneto-optical Spectroscopy. <i>Nano Letters</i> , 2017 , 17, 2895-2901	11.5	164
256	Critical Role of Interface and Crystallinity on the Performance and Photostability of Perovskite Solar Cell on Nickel Oxide. <i>Advanced Materials</i> , 2018 , 30, 1703879	24	163
255	DFT and $k \cdot p$ modelling of the phase transitions of lead and tin halide perovskites for photovoltaic cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 31-35	2.5	158
254	Structural and thermodynamic limits of layer thickness in 2D halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 58-66	11.5	152
253	Electronic model for self-assembled hybrid organic/perovskite semiconductors: Reverse band edge electronic states ordering and spin-orbit coupling. <i>Physical Review B</i> , 2012 , 86,	3.3	143
252	Two-Dimensional Halide Perovskites Incorporating Straight Chain Symmetric Diammonium Ions, (NHC HNH)(CHNH) Pb I ($m = 4-9$; $n = 1-4$). <i>Journal of the American Chemical Society</i> , 2018 , 140, 12226-12238	16.4	139
251	Long-lived hot-carrier light emission and large blue shift in formamidinium tin triiodide perovskites. <i>Nature Communications</i> , 2018 , 9, 243	17.4	135
250	Two-Dimensional Dion-Jacobson Hybrid Lead Iodide Perovskites with Aromatic Diammonium Cations. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12880-12890	16.4	135
249	The ground exciton state of formamidinium lead bromide perovskite nanocrystals is a singlet dark state. <i>Nature Materials</i> , 2019 , 18, 717-724	27	131
248	Tight-binding calculations of image-charge effects in colloidal nanoscale platelets of CdSe. <i>Physical Review B</i> , 2014 , 89,	3.3	122
247	Rashba and Dresselhaus Couplings in Halide Perovskites: Accomplishments and Opportunities for Spintronics and Spin-Orbitronics. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3362-3370	6.4	110

246	Semiconductor physics of organic-inorganic 2D halide perovskites. <i>Nature Nanotechnology</i> , 2020 , 15, 969-985	28.7	110
245	Design principles for electronic charge transport in solution-processed vertically stacked 2D perovskite quantum wells. <i>Nature Communications</i> , 2018 , 9, 2130	17.4	108
244	Quantum confinement and dielectric profiles of colloidal nanoplatelets of halide inorganic and hybrid organic-inorganic perovskites. <i>Nanoscale</i> , 2016 , 8, 6369-78	7.7	106
243	Effect of Precursor Solution Aging on the Crystallinity and Photovoltaic Performance of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602159	21.8	103
242	Molecular disorder and translation/rotation coupling in the plastic crystal phase of hybrid perovskites. <i>Nanoscale</i> , 2016 , 8, 6222-36	7.7	95
241	Composite Nature of Layered Hybrid Perovskites: Assessment on Quantum and Dielectric Confinements and Band Alignment. <i>ACS Nano</i> , 2018 , 12, 3321-3332	16.7	94
240	Structural Instabilities Related to Highly Anharmonic Phonons in Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2659-2665	6.4	87
239	Decreasing the electronic confinement in layered perovskites through intercalation. <i>Chemical Science</i> , 2017 , 8, 1960-1968	9.4	85
238	Theoretical Treatment of CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15806-15817	16.4	84
237	Unraveling exciton-phonon coupling in individual FAPbI ₃ nanocrystals emitting near-infrared single photons. <i>Nature Communications</i> , 2018 , 9, 3318	17.4	84
236	Elastic Softness of Hybrid Lead Halide Perovskites. <i>Physical Review Letters</i> , 2018 , 121, 085502	7.4	82
235	Interplay of spin-orbit coupling and lattice distortion in metal substituted 3D tri-chloride hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9232-9240	13	80
234	Elastic Constants, Optical Phonons, and Molecular Relaxations in the High Temperature Plastic Phase of the CH ₃ NH ₃ PbBr ₃ Hybrid Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3776-3784	6.4	75
233	Room-Temperature Optical Tunability and Inhomogeneous Broadening in 2D-Layered Organic-Inorganic Perovskite Pseudobinary Alloys. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3958-63	6.4	71
232	Narrow Linewidth Excitonic Emission in Organic-Inorganic Lead Iodide Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 5093-5100	6.4	69
231	Multinuclear NMR as a tool for studying local order and dynamics in CH ₃ NH ₃ PbX ₃ (X = Cl, Br, I) hybrid perovskites. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27133-27142	3.6	68
230	Concept of Lattice Mismatch and Emergence of Surface States in Two-dimensional Hybrid Perovskite Quantum Wells. <i>Nano Letters</i> , 2018 , 18, 5603-5609	11.5	67
229	Small Cyclic Diammonium Cation Templated (110)-Oriented 2D Halide (X = I, Br, Cl) Perovskites with White-Light Emission. <i>Chemistry of Materials</i> , 2019 , 31, 3582-3590	9.6	60

228	Unravelling Light-Induced Degradation of Layered Perovskite Crystals and Design of Efficient Encapsulation for Improved Photostability. <i>Advanced Functional Materials</i> , 2018 , 28, 1800305	15.6	60
227	Structural and electronic properties of BAs and BxGa1-xAs, BxIn1-xAs alloys. <i>Physica B: Condensed Matter</i> , 2005 , 364, 263-272	2.8	59
226	Entropy in halide perovskites. <i>Nature Materials</i> , 2018 , 17, 377-379	27	58
225	Electronic and optical properties of InAsInP quantum dots on InP(100) and InP(311)B substrates: Theory and experiment. <i>Physical Review B</i> , 2006 , 74,	3.3	58
224	Growth and optical characterizations of InAs quantum dots on InP substrate: towards a 1.55 μ m quantum dot laser. <i>Journal of Crystal Growth</i> , 2003 , 251, 230-235	1.6	55
223	Exciton-Exciton Annihilation in Two-Dimensional Halide Perovskites at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5153-5159	6.4	50
222	Phase transitions in new BEDT-TTF phase salts with hexacyanometalate anions [M(CN)6] ³⁻ [M=Co(III) and Fe(III)]. <i>Solid State Communications</i> , 1996 , 97, 27-32	1.6	50
221	Electronic properties of 2D and 3D hybrid organic/inorganic perovskites for optoelectronic and photovoltaic applications. <i>Optical and Quantum Electronics</i> , 2014 , 46, 1225-1232	2.4	49
220	Experimental and theoretical investigation of carrier confinement in InAs quantum dashes grown on InP(001). <i>Journal of Applied Physics</i> , 2004 , 95, 1074-1080	2.5	49
219	Cation Engineering in Two-Dimensional Ruddlesden-Popper Lead Iodide Perovskites with Mixed Large A-Site Cations in the Cages. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4008-4021	16.4	45
218	Impacts of Wetting Layer and Excited State on the Modulation Response of Quantum-Dot Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 1144-1150	2	45
217	Slow hot carrier cooling in cesium lead iodide perovskites. <i>Applied Physics Letters</i> , 2017 , 111, 153903	3.4	44
216	Seven-Layered 2D Hybrid Lead Iodide Perovskites. <i>Chem</i> , 2019 , 5, 2593-2604	16.2	44
215	Critical Fluctuations and Anharmonicity in Lead Iodide Perovskites from Molecular Dynamics Supercell Simulations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20729-20738	3.8	43
214	Spectral Analysis of 1.55- μ m InAsInP(113)B Quantum-Dot Lasers Based on a Multipopulation Rate Equations Model. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 872-878	2	43
213	Three-Dimensional Lead Iodide Perovskitoid Hybrids with High X-ray Photoresponse. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6625-6637	16.4	42
212	Analysis of the Double Laser Emission Occurring in 1.55- μ m InAsInP (113)B Quantum-Dot Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2007 , 43, 810-816	2	42
211	Negative Pressure Engineering with Large Cage Cations in 2D Halide Perovskites Causes Lattice Softening. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11486-11496	16.4	41

210	A close examination of the structure and dynamics of HC(NH)PbI by MD simulations and group theory. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27109-27118	3.6	41
209	Geometry Distortion and Small Polaron Binding Energy Changes with Ionic Substitution in Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 7130-7136	6.4	41
208	Pedestrian Guide to Symmetry Properties of the Reference Cubic Structure of 3D All-Inorganic and Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2238-42	6.4	40
207	Symmetry-Based Tight Binding Modeling of Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3833-3840	6.4	40
206	Evaluation of InGaPN and GaAsPN materials lattice-matched to Si for multi-junction solar cells. <i>Journal of Applied Physics</i> , 2013 , 113, 123509	2.5	39
205	Charge carrier dynamics in two-dimensional hybrid perovskites: Dion-Jacobson vs. Ruddlesden-Popper phases. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22009-22022	13	39
204	From 2D to 1D Electronic Dimensionality in Halide Perovskites with Stepped and Flat Layers Using Propylammonium as a Spacer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10661-10676	16.4	36
203	Room temperature operation of GaAsP(N)/GaP(N) quantum well based light-emitting diodes: Effect of the incorporation of nitrogen. <i>Applied Physics Letters</i> , 2011 , 98, 251110	3.4	36
202	Optical spectroscopy and modelling of double-cap grown InAs/InP quantum dots with long wavelength emission. <i>Semiconductor Science and Technology</i> , 2002 , 17, L63-L67	1.8	36
201	Band-Edge Exciton Fine Structure and Exciton Recombination Dynamics in Single Crystals of Layered Hybrid Perovskites. <i>Advanced Functional Materials</i> , 2020 , 30, 1907979	15.6	36
200	Toward Highly Efficient Inkjet-Printed Perovskite Solar Cells Fully Processed Under Ambient Conditions and at Low Temperature. <i>Solar Rrl</i> , 2018 , 2, 1800191	7.1	35
199	Control of Crystal Symmetry Breaking with Halogen-Substituted Benzylammonium in Layered Hybrid Metal-Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5060-5067	16.4	33
198	Defects limitation in epitaxial GaP on birstepped Si surface using UHVCMDBE growth cluster. <i>Journal of Crystal Growth</i> , 2013 , 380, 157-162	1.6	33
197	Negative Thermal Quenching in FASnI ₃ Perovskite Single Crystals and Thin Films. <i>ACS Energy Letters</i> , 2020 , 5, 2512-2519	20.1	31
196	Water-Stable 1D Hybrid Tin(II) Iodide Emits Broad Light with 36% Photoluminescence Quantum Efficiency. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9028-9038	16.4	31
195	Enhanced Dynamic Performance of Quantum Dot Semiconductor Lasers Operating on the Excited State. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 1-9	2	30
194	Rate equation analysis of injection-locked quantum cascade lasers. <i>Journal of Applied Physics</i> , 2013 , 113, 063104	2.5	30
193	Comparison of InAs quantum dot lasers emitting at 1.55 μm under optical and electrical injection. <i>Semiconductor Science and Technology</i> , 2005 , 20, 459-463	1.8	30

192	Organic Cation Alloying on Intralayer A and Interlayer A' sites in 2D Hybrid Dion-Jacobson Lead Bromide Perovskites (A')(A)PbBr. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8342-8351	16.4	28
191	Modulation Properties of Self-Injected Quantum-Dot Semiconductor Diode Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1900812-1900812	3.8	27
190	Electronic, optical, and structural properties of (In,Ga)As/GaP quantum dots. <i>Physical Review B</i> , 2012 , 86,	3.3	27
189	The dark exciton ground state promotes photon-pair emission in individual perovskite nanocrystals. <i>Nature Communications</i> , 2020 , 11, 6001	17.4	27
188	Cation Alloying Delocalizes Polarons in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3516-3524	6.4	26
187	Tuning Electronic Structure in Layered Hybrid Perovskites with Organic Spacer Substitution. <i>Nano Letters</i> , 2019 , 19, 8732-8740	11.5	26
186	Vertical electronic coupling between InAsInP quantum-dot layers emitting in the near-infrared range. <i>Applied Physics Letters</i> , 2005 , 86, 111905	3.4	26
185	Approach to wetting-layer-assisted lateral coupling of InAsInP quantum dots. <i>Physical Review B</i> , 2005 , 72,	3.3	26
184	Effects of Chlorine Mixing on Optoelectronics, Ion Migration, and Gamma-Ray Detection in Bromide Perovskites. <i>Chemistry of Materials</i> , 2020 , 32, 1854-1863	9.6	25
183	Room temperature laser emission of 1.5 μm from InAs/InP(311)B quantum dots. <i>Semiconductor Science and Technology</i> , 2002 , 17, L5-L7	1.8	25
182	Electronic surface states and dielectric self-energy profiles in colloidal nanoscale platelets of CdSe. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25182-90	3.6	24
181	Thermodynamic evolution of antiphase boundaries in GaP/Si epilayers evidenced by advanced X-ray scattering. <i>Applied Surface Science</i> , 2012 , 258, 2808-2815	6.7	24
180	Quantitative investigations of optical absorption in InAsInP(311)B quantum dots emitting at 1.55μm wavelength. <i>Applied Physics Letters</i> , 2004 , 85, 5685-5687	3.4	24
179	Does Rashba splitting in CHNHPbBr arise from 2 × 2 surface reconstruction?. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9638-9643	3.6	23
178	Atomistic calculations of Ga(NAsP)/GaP(N) quantum wells on silicon substrate: Band structure and optical gain. <i>Applied Physics Letters</i> , 2012 , 100, 111901	3.4	23
177	Experimental and theoretical studies of electronic energy levels in InAs quantum dots grown on (001) and (113)B InP substrates. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 12301-12309	1.8	23
176	Direct evidence of weakly dispersed and strongly anharmonic optical phonons in hybrid perovskites. <i>Communications Physics</i> , 2020 , 3,	5.4	22
175	Emission characteristics of ion-irradiated In(0.53)Ga(0.47)As based photoconductive antennas excited at 1.55 microm. <i>Optics Express</i> , 2007 , 15, 8943-50	3.3	22

174	Density of States Broadening in CH ₃ NH ₃ PbI ₃ Hybrid Perovskites Understood from ab Initio Molecular Dynamics Simulations. <i>ACS Energy Letters</i> , 2018 , 3, 787-793	20.1	21
173	Room temperature photoluminescence of high density (In,Ga)As/GaP quantum dots. <i>Applied Physics Letters</i> , 2011 , 99, 143123	3.4	21
172	Semianalytical evaluation of linear and nonlinear piezoelectric potentials for quantum nanostructures with axial symmetry. <i>Applied Physics Letters</i> , 2007 , 91, 122112	3.4	21
171	Impact of the capping layers on lateral confinement in InAs/InP quantum dots for 1.55 μ m laser applications studied by magnetophotoluminescence. <i>Applied Physics Letters</i> , 2005 , 87, 233111	3.4	21
170	Influence of Disorder and Anharmonic Fluctuations on the Dynamical Rashba Effect in Purely Inorganic Lead-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 291-298	3.8	21
169	Halide Perovskite High-k Field Effect Transistors with Dynamically Reconfigurable Ambipolarity 2019 , 1, 633-640		20
168	On the entanglement of electrostriction and non-linear piezoelectricity in non-centrosymmetric materials. <i>Applied Physics Letters</i> , 2012 , 100, 031903	3.4	20
167	Ab initio calculation of effective work functions for a TiN/HfO ₂ /SiO ₂ /Si transistor stack. <i>Applied Physics Letters</i> , 2011 , 99, 022101	3.4	20
166	Design of a lattice-matched III/V/Si photovoltaic tandem cell monolithically integrated on silicon substrate. <i>Optical and Quantum Electronics</i> , 2014 , 46, 1397-1403	2.4	19
165	Quantum dash based single section mode locked lasers for photonic integrated circuits. <i>Optics Express</i> , 2014 , 22, 11254-66	3.3	19
164	Time-resolved pump probe of 1.55 μ m InAs/InP quantum dots under high resonant excitation. <i>Applied Physics Letters</i> , 2006 , 88, 171502	3.4	19
163	Ultrashort, nonlinear, optical time response of Fe-doped InGaAs/InP multiple quantum wells in 1.55- μ m range. <i>Applied Physics Letters</i> , 2003 , 82, 1670-1672	3.4	19
162	Elastic neutron scattering study of high order satellites in the incommensurate phase of bis(4-chlorophenyl)sulfone. <i>Solid State Communications</i> , 1993 , 87, 47-51	1.6	19
161	Modulation properties of optically injection-locked quantum cascade lasers. <i>Optics Letters</i> , 2013 , 38, 1975-7	3	18
160	Molecular Materials Containing Conducting and Magnetic Sublattices: Phase Transitions in [k-(Et ₄ N)(BEDT-TTF) ₄ M(CN) ₆ · 3 H ₂ O; M = Fe ^{III} , Co ^{III} , Cr ^{III}]. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 305, 479-489		18
159	290fs switching time of Fe-doped quantum well saturable absorbers in a microcavity in 1.55 μ m range. <i>Applied Physics Letters</i> , 2004 , 85, 5926-5928	3.4	18
158	Monte-Carlo simulations of chemical reactions in molecular crystals. <i>Journal of Chemical Physics</i> , 1999 , 110, 1087-1096	3.9	18
157	Memory Seeds Enable High Structural Phase Purity in 2D Perovskite Films for High-Efficiency Devices. <i>Advanced Materials</i> , 2021 , 33, e2007176	24	18

156	Guanidinium and Mixed Cesium-Guanidinium Tin(II) Bromides: Effects of Quantum Confinement and Out-of-Plane Octahedral Tilting. <i>Chemistry of Materials</i> , 2019 , 31, 2121-2129	9.6	18
155	The importance of relativistic effects on two-photon absorption spectra in metal halide perovskites. <i>Nature Communications</i> , 2019 , 10, 5342	17.4	18
154	Determination of Dielectric Functions and Exciton Oscillator Strength of Two-Dimensional Hybrid Perovskites 2021 , 3, 148-159		18
153	-Phenylenediammonium as a New Spacer for Dion-Jacobson Two-Dimensional Perovskites. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12063-12073	16.4	18
152	First step to Si photonics: synthesis of quantum dot light-emitters on GaP substrate by MBE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2207-2211		17
151	Study of the characteristics of 1.55 μ m quantum dash/dot semiconductor lasers on InP substrate. <i>Applied Physics Letters</i> , 2008 , 93, 161104	3.4	17
150	Increase of charge-carrier redistribution efficiency in a laterally organized superlattice of coupled quantum dots. <i>Physical Review B</i> , 2006 , 74,	3.3	17
149	Demonstration of a Low Threshold Current in 1.54 μ m InAs/InP(311)B Quantum Dot Laser with Reduced Quantum Dot Stacks. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 6903-6905	1.4	17
148	Influence of π -conjugated cations and halogen substitution on the optoelectronic and excitonic properties of layered hybrid perovskites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	17
147	Influence of Schottky contact on the C-V and J-V characteristics of HTM-free perovskite solar cells. <i>EPJ Photovoltaics</i> , 2017 , 8, 85501	0.7	16
146	Low threshold current density of InAs quantum dash laser on InP (100) through optimizing double cap technique. <i>Applied Physics Letters</i> , 2009 , 94, 081107	3.4	16
145	Peculiarities of the enthalpy relaxation of a glassy crystal. <i>Chemical Physics</i> , 1997 , 215, 51-57	2.3	16
144	Terahertz radiation generated and detected by Br ⁺ -irradiated In _{0.53} Ga _{0.47} As photoconductive antenna excited at 800nm wavelength. <i>Applied Physics Letters</i> , 2006 , 89, 083519	3.4	16
143	InAs(Sb)/InP(100) quantum dots for mid-infrared emitters: observation of 2.35 μ m photoluminescence. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3920-3923		16
142	Physical properties of bulk, defective, 2D and 0D metal halide perovskite semiconductors from a symmetry perspective. <i>JPhys Materials</i> , 2020 , 3, 042001	4.2	16
141	Phase transitions in [E(ET4N)ET4M(CN) ₆ , 3 H ₂ O; M = Fe ^{III} , Co ^{III} , Cr ^{III}]. <i>Synthetic Metals</i> , 1997 , 86, 1859-1866		15
140	Carrier relaxation dynamics in InAs/InP quantum dots. <i>Applied Physics Letters</i> , 2008 , 92, 191103	3.4	15
139	New analytical calculations of the resonance modes in lens-shaped cavities: applications to the calculations of the energy levels and electronic wavefunctions in quantum dots. <i>Journal of Physics A</i> , 2003 , 36, 11677-11686		15

138	Nonlinear absorption temporal dynamics of Fe-doped GaInAs/InP multiple quantum wells. <i>Journal of Applied Physics</i> , 2003 , 94, 2355-2359	2.5	15
137	Light-activated interlayer contraction in two-dimensional perovskites for high-efficiency solar cells. <i>Nature Nanotechnology</i> , 2021 ,	28.7	15
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