Jacky Even

List of Publications by Year in Descending Order

281 papers	16,041 citations	57 h-index	122 g-index
326 ext. papers	18,817 ext. citations	7.6 avg, IF	6.91 L-index

#	Paper	IF	Citations
281	Expanding the Cage of 2D Bromide Perovskites by Large A-Site Cations. *Chemistry of Materials*, **2022**, 34, 1132-1142	9.6	5
280	A Theoretical Framework for Microscopic Surface and Interface Dipoles, Work Functions, and Valence Band Alignments in 2D and 3D Halide Perovskite Heterostructures. *ACS Energy Letters*, **2022**, 7, 349-357	20.1	7
279	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites.. *Advanced Materials*, **2022**, e2201666	24	3
278	Electronic structure and stability of Cs2TiX6 and Cs2ZrX6 (X = Br, I) vacancy ordered double perovskites. *Applied Physics Letters*, **2021**, 119, 181903	3.4	2
277	Epitaxial III-V/Si Vertical Heterostructures with Hybrid 2D-Semimetal/Semiconductor Ambipolar and Photoactive Properties. *Advanced Science*, **2021**, e2101661	13.6	5
276	Nonadiabatic molecular dynamics analysis of hybrid Dion□acobson 2D leads iodide perovskites. *Applied Physics Letters*, **2021**, 119, 201102	3.4	3
275	Light-activated interlayer contraction in two-dimensional perovskites for high-efficiency solar cells. *Nature Nanotechnology*, **2021**,	28.7	15
274	High-phase purity two-dimensional perovskites with 17.3% efficiency enabled by interface engineering of hole transport layer. *Cell Reports Physical Science*, **2021**, 2, 100601	6.1	5
273	Shedding Light on the Stability and Structure□Property Relationships of Two-Dimensional Hybrid Lead Bromide Perovskites. *Chemistry of Materials*, **2021**, 33, 5085-5107	9.6	9
272	Memory Seeds Enable High Structural Phase Purity in 2D Perovskite Films for High-Efficiency Devices. *Advanced Materials*, **2021**, 33, e2007176	24	18
271	Bismuth/Silver-Based Two-Dimensional Iodide Double and One-Dimensional Bi Perovskites: Interplay between Structural and Electronic Dimensions. *Chemistry of Materials*, **2021**, 33, 6206-6216	9.6	7
270	Determination of Dielectric Functions and Exciton Oscillator Strength of Two-Dimensional Hybrid Perovskites **2021**, 3, 148-159		18
269	Highly efficient photoelectric effect in halide perovskites for regenerative electron sources. *Nature Communications*, **2021**, 12, 673	17.4	9
268	Tetrazine molecules as an efficient electronic diversion channel in 2D organic-inorganic perovskites. *Materials Horizons*, **2021**, 8, 1547-1560	14.4	9
267	-Phenylenediammonium as a New Spacer for Dion-Jacobson Two-Dimensional Perovskites. *Journal of the American Chemical Society*, **2021**, 143, 12063-12073	16.4	18
266	Interstitial Nature of Mn Doping in 2D Perovskites. *ACS Nano*, **2021**,	16.7	6
265	Negative Pressure Engineering with Large Cage Cations in 2D Halide Perovskites Causes Lattice Softening. *Journal of the American Chemical Society*, **2020**, 142, 11486-11496	16.4	41

264	Three-Dimensional Lead Iodide Perovskitoid Hybrids with High X-ray Photoresponse. *Journal of the American Chemical Society*, **2020**, 142, 6625-6637	16.4	42
263	Negative Thermal Quenching in FASnI3 Perovskite Single Crystals and Thin Films. *ACS Energy Letters*, **2020**, 5, 2512-2519	20.1	31
262	Cation Engineering in Two-Dimensional Ruddlesden-Popper Lead Iodide Perovskites with Mixed Large A-Site Cations in the Cages. *Journal of the American Chemical Society*, **2020**, 142, 4008-4021	16.4	45
261	Control of Crystal Symmetry Breaking with Halogen-Substituted Benzylammonium in Layered Hybrid Metal-Halide Perovskites. *Journal of the American Chemical Society*, **2020**, 142, 5060-5067	16.4	33
260	Effects of Chlorine Mixing on Optoelectronics, Ion Migration, and Gamma-Ray Detection in Bromide Perovskites. *Chemistry of Materials*, **2020**, 32, 1854-1863	9.6	25
259	Water-Stable 1D Hybrid Tin(II) Iodide Emits Broad Light with 36% Photoluminescence Quantum Efficiency. *Journal of the American Chemical Society*, **2020**, 142, 9028-9038	16.4	31
258	Direct evidence of weakly dispersed and strongly anharmonic optical phonons in hybrid perovskites. *Communications Physics*, **2020**, 3,	5.4	22
257	From latent ferroelectricity to hyperferroelectricity in alkali lead halide perovskites. *Physical Review Materials*, **2020**, 4,	3.2	4
256	Detrimental effects of ion migration in the perovskite and hole transport layers on the efficiency of inverted perovskite solar cells. *Journal of Photonics for Energy*, **2020**, 10, 1	1.2	2
255	Physical properties of bulk, defective, 2D and 0D metal halide perovskite semiconductors from a symmetry perspective. *JPhys Materials*, **2020**, 3, 042001	4.2	16
254	Importance of Vacancies and Doping in the Hole-Transporting Nickel Oxide Interface with Halide Perovskites. *ACS Applied Materials & Interfaces*, **2020**, 12, 6633-6640	9.5	15
253	Fully Inorganic Mixed Cation Lead Halide Perovskite Nanoparticles: A Study at the Atomic Level. *Chemistry of Materials*, **2020**, 32, 1467-1474	9.6	9
252	Band-Edge Exciton Fine Structure and Exciton Recombination Dynamics in Single Crystals of Layered Hybrid Perovskites. *Advanced Functional Materials*, **2020**, 30, 1907979	15.6	36
251	The dark exciton ground state promotes photon-pair emission in individual perovskite nanocrystals. *Nature Communications*, **2020**, 11, 6001	17.4	27
250	Semiconductor physics of organic-inorganic 2D halide perovskites. *Nature Nanotechnology*, **2020**, 15, 969-985	28.7	110
249	Strong Electron-Phonon Interaction in 2D Vertical Homovalent III-V Singularities. *ACS Nano*, **2020**, 14, 13127-13136	16.7	3
248	Edge States Drive Exciton Dissociation in Ruddlesden□Popper Lead Halide Perovskite Thin Films **2020**, 2, 1360-1367		9
247	Charge carrier dynamics in two-dimensional hybrid perovskites: Dion□Jacobson vs. Ruddlesden□Popper phases. *Journal of Materials Chemistry A*, **2020**, 8, 22009-22022	13	39

246	Organic Cation Alloying on Intralayer A and Interlayer A' sites in 2D Hybrid Dion-Jacobson Lead Bromide Perovskites (A')(A)PbBr. *Journal of the American Chemical Society*, **2020**, 142, 8342-8351	16.4	28
245	Seven-Layered 2D Hybrid Lead Iodide Perovskites. *CheM*, **2019**, 5, 2593-2604	16.2	44
244	Cation Alloying Delocalizes Polarons in Lead Halide Perovskites. *Journal of Physical Chemistry Letters*, **2019**, 10, 3516-3524	6.4	26
243	From 2D to 1D Electronic Dimensionality in Halide Perovskites with Stepped and Flat Layers Using Propylammonium as a Spacer. *Journal of the American Chemical Society*, **2019**, 141, 10661-10676	16.4	36
242	Charge Trap Formation and Passivation in Methylammonium Lead Tribromide. *Journal of Physical Chemistry C*, **2019**, 123, 13812-13817	3.8	5
241	The ground exciton state of formamidinium lead bromide perovskite nanocrystals is a singlet dark state. *Nature Materials*, **2019**, 18, 717-724	27	131
240	Small Cyclic Diammonium Cation Templated (110)-Oriented 2D Halide (X = I, Br, Cl) Perovskites with White-Light Emission. *Chemistry of Materials*, **2019**, 31, 3582-3590	9.6	60
239	Fluorination of Organic Spacer Impacts on the Structural and Optical Response of 2D Perovskites. *Frontiers in Chemistry*, **2019**, 7, 946	5	9
238	Exciton-Exciton Annihilation in Two-Dimensional Halide Perovskites at Room Temperature. *Journal of Physical Chemistry Letters*, **2019**, 10, 5153-5159	6.4	50
237	Two-Dimensional Dion-Jacobson Hybrid Lead Iodide Perovskites with Aromatic Diammonium Cations. *Journal of the American Chemical Society*, **2019**, 141, 12880-12890	16.4	135
236	Tuning Electronic Structure in Layered Hybrid Perovskites with Organic Spacer Substitution. *Nano Letters*, **2019**, 19, 8732-8740	11.5	26
235	Halide Perovskite High-k Field Effect Transistors with Dynamically Reconfigurable Ambipolarity **2019**, 1, 633-640		20
234	Guanidinium and Mixed Cesium-Guanidinium Tin(II) Bromides: Effects of Quantum Confinement and Out-of-Plane Octahedral Tilting. *Chemistry of Materials*, **2019**, 31, 2121-2129	9.6	18
233	The importance of relativistic effects on two-photon absorption spectra in metal halide perovskites. *Nature Communications*, **2019**, 10, 5342	17.4	18
232	Structural and thermodynamic limits of layer thickness in 2D halide perovskites. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 58-66	11.5	152
231	Quantum and Dielectric Confinement Effects in Lower-Dimensional Hybrid Perovskite Semiconductors. *Chemical Reviews*, **2019**, 119, 3140-3192	68.1	303
230	Influence of Disorder and Anharmonic Fluctuations on the Dynamical Rashba Effect in Purely Inorganic Lead-Halide Perovskites. *Journal of Physical Chemistry C*, **2019**, 123, 291-298	3.8	21
229	Hybrid Dion-Jacobson 2D Lead Iodide Perovskites. *Journal of the American Chemical Society*, **2018**, 140, 3775-3783	16.4	426

228	Density of States Broadening in CH3NH3PbI3 Hybrid Perovskites Understood from ab Initio Molecular Dynamics Simulations. *ACS Energy Letters*, **2018**, 3, 787-793	20.1	21
227	Composite Nature of Layered Hybrid Perovskites: Assessment on Quantum and Dielectric Confinements and Band Alignment. *ACS Nano*, **2018**, 12, 3321-3332	16.7	94
226	Entropy in halide perovskites. *Nature Materials*, **2018**, 17, 377-379	27	58
225	Light-induced lattice expansion leads to high-efficiency perovskite solar cells. *Science*, **2018**, 360, 67-70	33.3	413
224	Unravelling Light-Induced Degradation of Layered Perovskite Crystals and Design of Efficient Encapsulation for Improved Photostability. *Advanced Functional Materials*, **2018**, 28, 1800305	15.6	60
223	Long-lived hot-carrier light emission and large blue shift in formamidinium tin triiodide perovskites. *Nature Communications*, **2018**, 9, 243	17.4	135
222	Ultrafast selective extraction of hot holes from cesium lead iodide perovskite films. *Journal of Energy Chemistry*, **2018**, 27, 1170-1174	12	12
221	Computational analysis of hybrid perovskite on silicon 2-T tandem solar cells based on a Si tunnel junction. *Optical and Quantum Electronics*, **2018**, 50, 1	2.4	14
220	Stable Light-Emitting Diodes Using Phase-Pure Ruddlesden-Popper Layered Perovskites. *Advanced Materials*, **2018**, 30, 1704217	24	210
219	A new approach to modelling Kelvin probe force microscopy of hetero-structures in the dark and under illumination. *Optical and Quantum Electronics*, **2018**, 50, 1	2.4	2
218	Anharmonicity and Disorder in the Black Phases of Cesium Lead Iodide Used for Stable Inorganic Perovskite Solar Cells. *ACS Nano*, **2018**, 12, 3477-3486	16.7	359
217	Does Rashba splitting in CHNHPbBr arise from 2 □2 surface reconstruction?. *Physical Chemistry Chemical Physics*, **2018**, 20, 9638-9643	3.6	23
216	Understanding Film Formation Morphology and Orientation in High Member 2D Ruddlesden□Popper Perovskites for High-Efficiency Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1700979	21.8	231
215	Concept of Lattice Mismatch and Emergence of Surface States in Two-dimensional Hybrid Perovskite Quantum Wells. *Nano Letters*, **2018**, 18, 5603-5609	11.5	67
214	Unraveling exciton-phonon coupling in individual FAPbI nanocrystals emitting near-infrared single photons. *Nature Communications*, **2018**, 9, 3318	17.4	84
213	Elastic Softness of Hybrid Lead Halide Perovskites. *Physical Review Letters*, **2018**, 121, 085502	7.4	82
212	Scaling law for excitons in 2D perovskite quantum wells. *Nature Communications*, **2018**, 9, 2254	17.4	372
211	Influence of □conjugated cations and halogen substitution on the optoelectronic and excitonic properties of layered hybrid perovskites. *Physical Review Materials*, **2018**, 2,	3.2	17

210	Critical Role of Interface and Crystallinity on the Performance and Photostability of Perovskite Solar Cell on Nickel Oxide. *Advanced Materials*, **2018**, 30, 1703879	24	163
209	Anharmonicity and Disorder in the Black Phases of CsPbI3 used for Stable Inorganic Perovskite Solar Cells **2018**,		1
208	Ab Initio and First Principles Studies of Halide Perovskites **2018**, 25-53		
207	Geometry Distortion and Small Polaron Binding Energy Changes with Ionic Substitution in Halide Perovskites. *Journal of Physical Chemistry Letters*, **2018**, 9, 7130-7136	6.4	41
206	Toward Highly Efficient Inkjet-Printed Perovskite Solar Cells Fully Processed Under Ambient Conditions and at Low Temperature. *Solar Rrl*, **2018**, 2, 1800191	7.1	35
205	Multiscale in modelling and validation for solar photovoltaics. *EPJ Photovoltaics*, **2018**, 9, 10	0.7	5
204	Structural Diversity in White-Light-Emitting Hybrid Lead Bromide Perovskites. *Journal of the American Chemical Society*, **2018**, 140, 13078-13088	16.4	214
203	Two-Dimensional Halide Perovskites Incorporating Straight Chain Symmetric Diammonium Ions, (NHC HNH)(CHNH) Pb I (m = 4-9; n = 1-4). *Journal of the American Chemical Society*, **2018**, 140, 12226-12238	16.4	139
202	Design principles for electronic charge transport in solution-processed vertically stacked 2D perovskite quantum wells. *Nature Communications*, **2018**, 9, 2130	17.4	108
201	Effect of Precursor Solution Aging on the Crystallinity and Photovoltaic Performance of Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1602159	21.8	103
200	Extremely efficient internal exciton dissociation through edge states in layered 2D perovskites. *Science*, **2017**, 355, 1288-1292	33.3	648
199	Neutral and Charged Exciton Fine Structure in Single Lead Halide Perovskite Nanocrystals Revealed by Magneto-optical Spectroscopy. *Nano Letters*, **2017**, 17, 2895-2901	11.5	164
198	Influence of Schottky contact on the C-V and J-V characteristics of HTM-free perovskite solar cells. *EPJ Photovoltaics*, **2017**, 8, 85501	0.7	16
197	Theoretical Treatment of CH NH PbI Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2017**, 56, 15806-15817	16.4	84
196	Theoretische Abhandlung über CH3NH3PbI3-Perowskit-Solarzellen. *Angewandte Chemie*, **2017**, 129, 16014-16026	3.6	4
195	Structural Instabilities Related to Highly Anharmonic Phonons in Halide Perovskites. *Journal of Physical Chemistry Letters*, **2017**, 8, 2659-2665	6.4	87
194	Al4SiC4 vibrational properties: density functional theory calculations compared to Raman and infrared spectroscopy measurements. *Journal of Raman Spectroscopy*, **2017**, 48, 891-896	2.3	4
193	High Members of the 2D Ruddlesden-Popper Halide Perovskites: Synthesis, Optical Properties, and Solar Cells of (CH3(CH2)3NH3)2(CH3NH3)4Pb5I16. *CheM*, **2017**, 2, 427-440	16.2	285

192	Slow hot carrier cooling in cesium lead iodide perovskites. *Applied Physics Letters*, **2017**, 111, 153903	3.4	44
191	Critical Fluctuations and Anharmonicity in Lead Iodide Perovskites from Molecular Dynamics Supercell Simulations. *Journal of Physical Chemistry C*, **2017**, 121, 20729-20738	3.8	43
190	Tunable White-Light Emission in Single-Cation-Templated Three-Layered 2D Perovskites (CHCHNH)PbBrCl. *Journal of the American Chemical Society*, **2017**, 139, 11956-11963	16.4	254
189	Ultrafast optical snapshots of hybrid perovskites reveal the origin of multiband electronic transitions. *Physical Review B*, **2017**, 96,	3.3	12
188	New Type of 2D Perovskites with Alternating Cations in the Interlayer Space, (C(NH))(CHNH)PbI: Structure, Properties, and Photovoltaic Performance. *Journal of the American Chemical Society*, **2017**, 139, 16297-16309	16.4	251
187	Rashba and Dresselhaus Couplings in Halide Perovskites: Accomplishments and Opportunities for Spintronics and Spin-Orbitronics. *Journal of Physical Chemistry Letters*, **2017**, 8, 3362-3370	6.4	110
186	Decreasing the electronic confinement in layered perovskites through intercalation. *Chemical Science*, **2017**, 8, 1960-1968	9.4	85
185	Electronic wave functions and optical transitions in (In,Ga)As/GaP quantum dots. *Physical Review B*, **2016**, 94,	3.3	8
184	Multinuclear NMR as a tool for studying local order and dynamics in CHNHPbX (X = Cl, Br, I) hybrid perovskites. *Physical Chemistry Chemical Physics*, **2016**, 18, 27133-27142	3.6	68
183	Narrow Linewidth Excitonic Emission in Organic-Inorganic Lead Iodide Perovskite Single Crystals. *Journal of Physical Chemistry Letters*, **2016**, 7, 5093-5100	6.4	69
182	Symmetry-Based Tight Binding Modeling of Halide Perovskite Semiconductors. *Journal of Physical Chemistry Letters*, **2016**, 7, 3833-3840	6.4	40
181	Ultrahigh sensitivity of methylammonium lead tribromide perovskite single crystals to environmental gases. *Science Advances*, **2016**, 2, e1600534	14.3	251
180	Advances and Promises of Layered Halide Hybrid Perovskite Semiconductors. *ACS Nano*, **2016**, 10, 9776-9786	2687	276
179	Light-activated photocurrent degradation and self-healing in perovskite solar cells. *Nature Communications*, **2016**, 7, 11574	17.4	461
178	Quantum confinement and dielectric profiles of colloidal nanoplatelets of halide inorganic and hybrid organic-inorganic perovskites. *Nanoscale*, **2016**, 8, 6369-78	7.7	106
177	Theoretical insights into hybrid perovskites for photovoltaic applications **2016**,		6
176	Carrier scattering processes and low energy phonon spectroscopy in hybrid perovskites crystals **2016**,		10
175	Dielectric properties of hybrid perovskites and drift-diffusion modeling of perovskite cells **2016**,		6

174	Theoretical studies of Rashba and Dresselhaus effects in hybrid organic-inorganic perovskites for optoelectronic applications **2016**,		2
173	Molecular disorder and translation/rotation coupling in the plastic crystal phase of hybrid perovskites. *Nanoscale*, **2016**, 8, 6222-36	7.7	95
172	From Basic Physical Properties of InAs/InP Quantum Dots to State-of-the-Art Lasers for 1.55 μm Optical Communications. *Advances in Materials Science and Engineering*, **2016**, 95-125		2
171	Chapter 7:Electronic Properties of Metal Halide Perovskites. *RSC Energy and Environment Series*, **2016**, 202-233	0.6	2
170	A close examination of the structure and dynamics of HC(NH)PbI by MD simulations and group theory. *Physical Chemistry Chemical Physics*, **2016**, 18, 27109-27118	3.6	41
169	High-efficiency two-dimensional Ruddlesden-Popper perovskite solar cells. *Nature*, **2016**, 536, 312-6	50.4	2161
168	Polaron Stabilization by Cooperative Lattice Distortion and Cation Rotations in Hybrid Perovskite Materials. *Nano Letters*, **2016**, 16, 3809-16	11.5	203
167	Photoexcitation dynamics in solution-processed formamidinium lead iodide perovskite thin films for solar cell applications. *Light: Science and Applications*, **2016**, 5, e16056	16.7	167
166	Elastic Constants, Optical Phonons, and Molecular Relaxations in the High Temperature Plastic Phase of the CHNHPbBr Hybrid Perovskite. *Journal of Physical Chemistry Letters*, **2016**, 7, 3776-3784	6.4	75
165	Interplay of spin□orbit coupling and lattice distortion in metal substituted 3D tri-chloride hybrid perovskites. *Journal of Materials Chemistry A*, **2015**, 3, 9232-9240	13	80
164	Microscopic electronic wave function and interactions between quasiparticles in empirical tight-binding theory. *Physical Review B*, **2015**, 91,	3.3	14
163	Pedestrian Guide to Symmetry Properties of the Reference Cubic Structure of 3D All-Inorganic and Hybrid Perovskites. *Journal of Physical Chemistry Letters*, **2015**, 6, 2238-42	6.4	40
162	Multijunction photovoltavics: integrating III□V semiconductor heterostructures on silicon. *SPIE Newsroom*, **2015**,		3
161	Hybrid Perovskites: Photophysics of Organic□norganic Hybrid Lead Iodide Perovskite Single Crystals (Adv. Funct. Mater. 16/2015). *Advanced Functional Materials*, **2015**, 25, 2346-2346	15.6	8
160	Solid-State Physics Perspective on Hybrid Perovskite Semiconductors. *Journal of Physical Chemistry C*, **2015**, 119, 10161-10177	3.8	175
159	Ab initio calculations of polarization, piezoelectric constants, and elastic constants of InAs and InP in the wurtzite phase. *Journal of Experimental and Theoretical Physics*, **2015**, 121, 246-249	1	7
158	First-principles calculations of band offsets and polarization effects at InAs/InP interfaces. *Journal Physics D: Applied Physics*, **2015**, 48, 355105	3	3
157	Rashba and Dresselhaus Effects in Hybrid Organic-Inorganic Perovskites: From Basics to Devices. *ACS Nano*, **2015**, 9, 11557-67	16.7	232

156	Frequency-dependent linewidth enhancement factor of optical injection-locked quantum dot/dash lasers. *Optics Express*, **2015**, 23, 21761-70	3.3	4
155	Al4SiC4 wurtzite crystal: Structural, optoelectronic, elastic, and piezoelectric properties. *APL Materials*, **2015**, 3, 121101	5.7	13
154	Silicon photonics WDM transmitter with single section semiconductor mode-locked laser. *Advanced Optical Technologies*, **2015**, 4,	0.9	11
153	Photophysics of Organic□norganic Hybrid Lead Iodide Perovskite Single Crystals. *Advanced Functional Materials*, **2015**, 25, 2378-2385	15.6	277
152	Strain-induced fundamental optical transition in (In,Ga)As/GaP quantum dots. *Applied Physics Letters*, **2014**, 104, 011908	3.4	9
151	Analysis of frequency chirp of self-injected nanostructure semiconductor lasers. *IET Optoelectronics* , **2014**, 8, 51-57	1.5	1
150	Analysis of Multivalley and Multibandgap Absorption and Enhancement of Free Carriers Related to Exciton Screening in Hybrid Perovskites. *Journal of Physical Chemistry C*, **2014**, 118, 11566-11572	3.8	404
149	Electronic properties of 2D and 3D hybrid organic/inorganic perovskites for optoelectronic and photovoltaic applications. *Optical and Quantum Electronics*, **2014**, 46, 1225-1232	2.4	49
148	DFT and k □p modelling of the phase transitions of lead and tin halide perovskites for photovoltaic cells. *Physica Status Solidi - Rapid Research Letters*, **2014**, 8, 31-35	2.5	158
147	Tight-binding calculations of image-charge effects in colloidal nanoscale platelets of CdSe. *Physical Review B*, **2014**, 89,	3.3	122
146	Room-Temperature Optical Tunability and Inhomogeneous Broadening in 2D-Layered Organic-Inorganic Perovskite Pseudobinary Alloys. *Journal of Physical Chemistry Letters*, **2014**, 5, 3958-63	6.4	71
145	Corrections to Enhanced Dynamic Performance of Quantum Dot Semiconductor Lasers Operating on the Excited State [Sep 14 723-731]. *IEEE Journal of Quantum Electronics*, **2014**, 50, 1072-1072	2	0
144	Nondegenerate Four-Wave Mixing in a Dual-Mode Injection-Locked InAs/InP(100) Nanostructure Laser. *IEEE Photonics Journal*, **2014**, 6, 1-8	1.8	8
143	Comment on "Density functional theory analysis of structural and electronic properties of orthorhombic perovskite CH3NH3PbI3" by Y. Wang et al., Phys. Chem. Chem. Phys., 2014, 16, 1424-1429. *Physical Chemistry Chemical Physics*, **2014**, 16, 8697-8	3.6	12
142	Understanding quantum confinement of charge carriers in layered 2D hybrid perovskites. *ChemPhysChem*, **2014**, 15, 3733-41	3.2	175
141	Electrical injection in GaP-based laser waveguides and active areas **2014**,		2
140	Enhanced Dynamic Performance of Quantum Dot Semiconductor Lasers Operating on the Excited State. *IEEE Journal of Quantum Electronics*, **2014**, 50, 1-9	2	30
139	Design of a lattice-matched III□V□N/Si photovoltaic tandem cell monolithically integrated on silicon substrate. *Optical and Quantum Electronics*, **2014**, 46, 1397-1403	2.4	19

138	Effect of the nitrogen incorporation and fast carrier dynamics in (In,Ga)AsN/GaP self-assembled quantum dots. *Applied Physics Letters*, **2014**, 105, 243111	3.4	2
137	Near-threshold relaxation dynamics of a quantum dot laser **2014**,		1
136	Quantum dash based directly modulated lasers for long-reach access networks. *Electronics Letters*, **2014**, 50, 534-536	1.1	3
135	Density Functional Theory Simulations of Semiconductors for Photovoltaic Applications: Hybrid Organic-Inorganic Perovskites and III/V Heterostructures. *International Journal of Photoenergy*, **2014**, 2014, 1-11	2.1	14
134	Self-referenced technique for monitoring and analysing the non-linear dynamics of semiconductor lasers. *Optics Express*, **2014**, 22, 16528-37	3.3	
133	Quantum dash based single section mode locked lasers for photonic integrated circuits. *Optics Express*, **2014**, 22, 11254-66	3.3	19
132	Phase-amplitude coupling characteristics in directly modulated quantum dot lasers. *Applied Physics Letters*, **2014**, 105, 221114	3.4	12
131	Electronic surface states and dielectric self-energy profiles in colloidal nanoscale platelets of CdSe. *Physical Chemistry Chemical Physics*, **2014**, 16, 25182-90	3.6	24
130	Theoretical study of optical properties of anti phase domains in GaP. *Journal of Applied Physics*, **2014**, 115, 063502	2.5	13
129	Monolithic Integration of Diluted-Nitride III□V-N Compounds on Silicon Substrates: Toward the III□V/Si Concentrated Photovoltaics. *Energy Harvesting and Systems*, **2014**, 1,	4.4	8
128	Mode-locked InAs/InP quantum-dash-based DBR laser with monolithically integrated SOA **2014**,		1
127	Theoretical insights into multibandgap hybrid perovskites for photovoltaic applications **2014**,		8
126	Rate equation analysis of frequency chirp in optically injection-locked quantum cascade lasers **2014** ,		1
125	Importance of Spin□Orbit Coupling in Hybrid Organic/Inorganic Perovskites for Photovoltaic Applications. *Journal of Physical Chemistry Letters*, **2013**, 4, 2999-3005	6.4	853
124	Defects limitation in epitaxial GaP on bistepped Si surface using UHVCVD□MBE growth cluster. *Journal of Crystal Growth*, **2013**, 380, 157-162	1.6	33
123	Vibrational properties of 2H-PbI2 semiconductors studied via Density Functional Theory calculations. *Thin Solid Films*, **2013**, 541, 9-11	2.2	5
122	Structural and optical properties of AlGaP confinement layers and InGaAs quantum dot light emitters onto GaP substrate: Towards photonics on silicon applications. *Thin Solid Films*, **2013**, 541, 87-91	2.2	7
121	Vibrational properties of SrCu2O2 studied via Density Functional Theory calculations and compared to Raman and infrared spectroscopy measurements. *Thin Solid Films*, **2013**, 541, 113-116	2.2	4

120	Raman investigation of GaP□i interfaces grown by molecular beam epitaxy. *Thin Solid Films*, **2013**, 541, 72-75	2.2	3
119	Modulation Properties of Self-Injected Quantum-Dot Semiconductor Diode Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2013**, 19, 1900812-1900812	3.8	27
118	Intensity modulation response of injection-locked quantum cascade lasers **2013**,		2
117	Evaluation of InGaPN and GaAsPN materials lattice-matched to Si for multi-junction solar cells. *Journal of Applied Physics*, **2013**, 113, 123509	2.5	39
116	Mode locked InAs/InP Quantum dash based DBR Laser monolithically integrated with a semiconductor optical amplifier **2013**,		4
115	Rate equation analysis of injection-locked quantum cascade lasers. *Journal of Applied Physics*, **2013**, 113, 063104	2.5	30
114	Modulation properties of optically injection-locked quantum cascade lasers. *Optics Letters*, **2013**, 38, 1975-7	3	18
113	First-principles density functional theory study of strained wurtzite InP and InAs. *Journal Physics D: Applied Physics*, **2013**, 46, 505106	3	11
112	Impacts of carrier capture and relaxation rates on the modulation response of injection-locked quantum dot lasers **2013**,		2
111	Nonlinear dynamics and modulation properties of optically injected quantum cascade lasers **2013**,		2
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