

Filippo De Angelis

List of Publications by Year in Descending Order

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

373
papers

34,791
citations

89
h-index

178
g-index

389
ext. papers

38,449
ext. citations

10.3
avg, IF

7.7
L-index

#	Paper	IF	Citations
373	Role of the Alkali Metal Cation in the Early Stages of Crystallization of Halide Perovskites. <i>Chemistry of Materials</i> , 2022 , 34, 1121-1131	9.6	2
372	Understanding Performance Limiting Interfacial Recombination in pin Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022 , 2103567	21.8	13
371	Reaction Mechanism of Photocatalytic Hydrogen Production at Water/Tin Halide Perovskite Interfaces. <i>ACS Energy Letters</i> , 2022 , 7, 1308-1315	20.1	5
370	Stability of Tin- versus Lead-Halide Perovskites: Ab Initio Molecular Dynamics Simulations of Perovskite/Water Interfaces.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2321-2329	6.4	7
369	Single-crystalline TiO nanoparticles for stable and efficient perovskite modules.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	13
368	Modelling the Interaction between Carboxylic Acids and Zinc Oxide: Insight into Degradation of ZnO Pigments. <i>Molecules</i> , 2022 , 27, 3362	4.8	0
367	First-Principles Molecular Dynamics in Metal-Halide Perovskites: Contrasting Generalized Gradient Approximation and Hybrid Functionals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 11886-11893	6.4	4
366	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. <i>Nature Communications</i> , 2021 , 12, 6394	17.4	23
365	Designing New Indene-Fullerene Derivatives as Electron-Transporting Materials for Flexible Perovskite Solar Cells.. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27344-27353	3.8	4
364	The Prospect of Lead-Free Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2021 , 6, 1586-1587	20.1	13
363	Ligand-engineered bandgap stability in mixed-halide perovskite LEDs. <i>Nature</i> , 2021 , 591, 72-77	50.4	172
362	Cation Engineering for Resonant Energy Level Alignment in Two-Dimensional Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2528-2535	6.4	4
361	Energy vs Charge Transfer in Manganese-Doped Lead Halide Perovskites.. <i>ACS Energy Letters</i> , 2021 , 6, 1869-1878	20.1	12
360	Suppression of Tin Oxidation by 3D/2D Perovskite Interfacing. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10901-10908	3.8	4
359	Surface Reconstruction Engineering with Synergistic Effect of Mixed-Salt Passivation Treatment toward Efficient and Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2102902	15.6	17
358	Energy Spotlight. <i>ACS Energy Letters</i> , 2021 , 6, 2635-2637	20.1	
357	Observation of large Rashba spin-orbit coupling at room temperature in compositionally engineered perovskite single crystals and application in high performance photodetectors. <i>Materials Today</i> , 2021 , 46, 18-27	21.8	9

356	Strong Electron Localization in Tin Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5339-5343	6.4	9
355	Multication perovskite 2D/3D interfaces form via progressive dimensional reduction. <i>Nature Communications</i> , 2021 , 12, 3472	17.4	24
354	Real Space-Real Time Evolution of Excitonic States Based on the Bethe-Salpeter Equation Method. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7261-7269	6.4	2
353	Water-Stable DMASnBr Lead-Free Perovskite for Effective Solar-Driven Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3611-3618	16.4	29
352	Tuning halide perovskite energy levels. <i>Energy and Environmental Science</i> , 2021 , 14, 1429-1438	35.4	38
351	Water-Stable DMASnBr ₃ Lead-Free Perovskite for Effective Solar-Driven Photocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 3655-3662	3.6	2
350	The dependence of the spectroscopic properties of orcein dyes on solvent proticity: insights from theory and experiments. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15329-15337	3.6	
349	Halide-driven formation of lead halide perovskites: insight from ab initio molecular dynamics simulations. <i>Materials Advances</i> , 2021 , 2, 3915-3926	3.3	5
348	Combination of a large cation and coordinating additive improves carrier transport properties in quasi-2D perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9175-9190	13	2
347	Decoding ultrafast polarization responses in lead halide perovskites by the two-dimensional optical Kerr effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
346	Composition-Dependent Struggle between Iodine and Tin Chemistry at the Surface of Mixed Tin/Lead Perovskites. <i>ACS Energy Letters</i> , 2021 , 6, 969-976	20.1	12
345	Solvents for Processing Stable Tin Halide Perovskites. <i>ACS Energy Letters</i> , 2021 , 6, 959-968	20.1	35
344	Halogen-Bonded Hole-Transport Material Suppresses Charge Recombination and Enhances Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2101553	21.8	13
343	Iodide vs Chloride: The Impact of Different Lead Halides on the Solution Chemistry of Perovskite Precursors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9827-9835	6.1	2
342	Experimental Strategy and Mechanistic View to Boost the Photocatalytic Activity of Cs ₃ Bi ₂ Br ₉ Lead-Free Perovskite Derivative by g-C ₃ N ₄ Composite Engineering. <i>Advanced Functional Materials</i> , 2021 , 2104428	15.6	14
341	Role of spacer cations and structural distortion in two-dimensional germanium halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9899-9906	7.1	6
340	Electronic Properties and Carrier Trapping in Bi and Mn Co-doped CsPbCl Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5482-5489	6.4	14
339	Charge localization and trapping at surfaces in lead-iodide perovskites: the role of polarons and defects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6882-6892	13	28

338	Evolution of Perovskite Solar Cells: Lessons Learned from Hybrid/Organic Photovoltaics. <i>ACS Energy Letters</i> , 2020 , 5, 935-937	20.1	0
337	Structural and Optical Properties of Solvated PbI ₂ in γ -Butyrolactone: Insight into the Solution Chemistry of Lead Halide Perovskite Precursors. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6139-6145	6.4	10
336	Transition Dipole Moments of = 1, 2, and 3 Perovskite Quantum Wells from the Optical Stark Effect and Many-Body Perturbation Theory. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 716-723	6.4	14
335	Tin versus Lead Redox Chemistry Modulates Charge Trapping and Self-Doping in Tin/Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3546-3556	6.4	64
334	The Doping Mechanism of Halide Perovskite Unveiled by Alkaline Earth Metals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2364-2374	16.4	65
333	Modulating Band Alignment in Mixed Dimensionality 3D/2D Perovskites by Surface Termination Ligand Engineering. <i>Chemistry of Materials</i> , 2020 , 32, 105-113	9.6	12
332	Polarons in Metal Halide Perovskites. <i>Advanced Energy Materials</i> , 2020 , 10, 1902748	21.8	47
331	Origin of pressure-induced band gap tuning in tin halide perovskites. <i>Materials Advances</i> , 2020 , 1, 2840-2845	3.5	10
330	Formation of Color Centers in Lead Iodide Perovskites: Self-Trapping and Defects in the Bulk and Surfaces. <i>Chemistry of Materials</i> , 2020 , 32, 6916-6924	9.6	15
329	Combined Computational and Experimental Investigation on the Nature of Hydrated Iodoplumbate Complexes: Insights into the Dual Role of Water in Perovskite Precursor Solutions. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11481-11490	3.4	12
328	Universal approach toward high-efficiency two-dimensional perovskite solar cells via a vertical-rotation process. <i>Energy and Environmental Science</i> , 2020 , 13, 3093-3101	35.4	46
327	Instability of Tin Iodide Perovskites: Bulk p-Doping versus Surface Tin Oxidation. <i>ACS Energy Letters</i> , 2020 , 5, 2787-2795	20.1	67
326	Critical Role of Protons for Emission Quenching of Indoline Dyes in Solution and on Semiconductor Surfaces. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21346-21356	3.8	6
325	Outstanding Passivation Effect by a Mixed-Salt Interlayer with Internal Interactions in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3159-3167	20.1	22
324	New Fullerene Derivative as an n-Type Material for Highly Efficient, Flexible Perovskite Solar Cells of a p-i-n Configuration. <i>Advanced Functional Materials</i> , 2020 , 30, 2004357	15.6	25
323	A combined experimental and theoretical approach revealing a direct mechanism for bifunctional water splitting on doped copper phosphide. <i>Nanoscale</i> , 2020 , 12, 17769-17779	7.7	5
322	Ab Initio Modeling of Solar Cell Dye Sensitizers: The Hunt for Red Photons Continues. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 743-750	2.3	5
321	Controlling competing photochemical reactions stabilizes perovskite solar cells. <i>Nature Photonics</i> , 2019 , 13, 532-539	33.9	161

320	Stable Ligand Coordination at the Surface of Colloidal CsPbBr Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3715-3726	6.4	49
319	Electrochemical Hole Injection Selectively Expels Iodide from Mixed Halide Perovskite Films. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10812-10820	16.4	73
318	Rationalizing the Molecular Design of Hole-Selective Contacts to Improve Charge Extraction in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1900990	21.8	37
317	Mo6S3Br6: An Anisotropic 2D Superatomic Semiconductor. <i>Advanced Functional Materials</i> , 2019 , 29, 1902951	15.6	6
316	Interface Electrostatics of Solid-State Dye-Sensitized Solar Cells: A Joint Drift-Diffusion and Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14955-14963	3.8	5
315	Large polaron evidence in the ultrafast THz response of Lead-Halide Perovskites. <i>EPJ Web of Conferences</i> , 2019 , 205, 04019	0.3	
314	An Oxa[5]helicene-Based Racemic Semiconducting Glassy Film for Photothermally Stable Perovskite Solar Cells. <i>IScience</i> , 2019 , 15, 234-242	6.1	24
313	Ultrafast THz Probe of Photoinduced Polarons in Lead-Halide Perovskites. <i>Physical Review Letters</i> , 2019 , 122, 166601	7.4	56
312	Understanding the Solution Chemistry of Lead Halide Perovskites Precursors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3400-3409	6.1	40
311	Synthesis, Properties, and Modeling of Cs1-xRbxSnBr3 Solid Solution: A New Mixed-Cation Lead-Free All-Inorganic Perovskite System. <i>Chemistry of Materials</i> , 2019 , 31, 3527-3533	9.6	21
310	From Large to Small Polarons in Lead, Tin, and Mixed Lead-Tin Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1790-1798	6.4	49
309	Charge Carriers Are Not Affected by the Relatively Slow-Rotating Methylammonium Cations in Lead Halide Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5128-5134	6.4	11
308	Energy Level Tuning at the MAPbI3 Perovskite/Contact Interface Using Chemical Treatment. <i>ACS Energy Letters</i> , 2019 , 4, 2181-2184	20.1	31
307	Defect Activity in Lead Halide Perovskites. <i>Advanced Materials</i> , 2019 , 31, e1901183	24	119
306	Ligand-Induced Surface Charge Density Modulation Generates Local Type-II Band Alignment in Reduced-Dimensional Perovskites. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13459-13467	16.4	41
305	Stabilizing halide perovskite surfaces for solar cell operation with wide-bandgap lead oxysalts. <i>Science</i> , 2019 , 365, 473-478	33.3	460
304	Hierarchical Coherent Phonons in a Superatomic Semiconductor. <i>Advanced Materials</i> , 2019 , 31, e1903209	24	5
303	Charge Localization, Stabilization, and Hopping in Lead Halide Perovskites: Competition between Polaron Stabilization and Cation Disorder. <i>ACS Energy Letters</i> , 2019 , 4, 2013-2020	20.1	32

302	The nature of the lead-iodine bond in PbI ₂ : A case study for the modelling of lead halide perovskites. <i>Computational and Theoretical Chemistry</i> , 2019 , 1164, 112558	2	6
301	Electronic structure of MAPbI and MAPbCl: importance of band alignment. <i>Scientific Reports</i> , 2019 , 9, 15159	4.9	21
300	Solvent-Free Synthetic Route for Cerium(IV) Metal-Organic Frameworks with UiO-66 Architecture and Their Photocatalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45031-45037	9.5	34
299	Introduction of a Bifunctional Cation Affords Perovskite Solar Cells Stable at Temperatures Exceeding 80 °C. <i>ACS Energy Letters</i> , 2019 , 4, 2989-2994	20.1	13
298	Band Gap Engineering in MASnBr and CsSnBr Perovskites: Mechanistic Insights through the Application of Pressure. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7398-7405	6.4	31
297	Formation of Surface Defects Dominates Ion Migration in Lead-Halide Perovskites. <i>ACS Energy Letters</i> , 2019 , 4, 779-785	20.1	135
296	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
295	Clues from defect photochemistry. <i>Nature Materials</i> , 2018 , 17, 383-384	27	28
294	Infrared Dielectric Screening Determines the Low Exciton Binding Energy of Metal-Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 620-627	6.4	62
293	Modeling the Interaction of Molecular Iodine with MAPbI ₃ : A Probe of Lead-Halide Perovskites Defect Chemistry. <i>ACS Energy Letters</i> , 2018 , 3, 447-451	20.1	66
292	Iodine chemistry determines the defect tolerance of lead-halide perovskites. <i>Energy and Environmental Science</i> , 2018 , 11, 702-713	35.4	353
291	Superatomic Two-Dimensional Semiconductor. <i>Nano Letters</i> , 2018 , 18, 1483-1488	11.5	25
290	Origin of low electron-hole recombination rate in metal halide perovskites. <i>Energy and Environmental Science</i> , 2018 , 11, 101-105	35.4	86
289	First-Principles Modeling of Bismuth Doping in the MAPbI ₃ Perovskite. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14107-14112	3.8	41
288	Light-Induced Formation of Pb ³⁺ Paramagnetic Species in Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2018 , 3, 1840-1847	20.1	20
287	First-Principles Modeling of Defects in Lead Halide Perovskites: Best Practices and Open Issues. <i>ACS Energy Letters</i> , 2018 , 3, 2206-2222	20.1	152
286	Dye-Sensitized Photocatalytic Hydrogen Generation: Efficiency Enhancement by Organic Photosensitizer Adsorbent Intermolecular Interaction. <i>ACS Energy Letters</i> , 2018 , 3, 85-91	20.1	39
285	Dynamical Rashba Band Splitting in Hybrid Perovskites Modeled by Local Electric Fields. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 124-132	3.8	7

284	Quantitative structure-property relationship modeling of small organic molecules for solar cells applications. <i>Journal of Chemometrics</i> , 2018 , 32, e2957	1.6	5
283	Large electrostrictive response in lead halide perovskites. <i>Nature Materials</i> , 2018 , 17, 1020-1026	27	89
282	Ionotronic Halide Perovskite Drift-Diffusive Synapses for Low-Power Neuromorphic Computation. <i>Advanced Materials</i> , 2018 , 30, e1805454	24	91
281	Exploring the Limits of Three-Dimensional Perovskites: The Case of FAPb _{1-x} Sn _x Br ₃ . <i>ACS Energy Letters</i> , 2018 , 3, 1353-1359	20.1	23
280	Influence of Surface Termination on the Energy Level Alignment at the CH ₃ NH ₃ PbI ₃ Perovskite/C60 Interface. <i>Chemistry of Materials</i> , 2017 , 29, 958-968	9.6	119
279	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 604-613	35.4	387
278	Nearly Monodisperse Insulator CsPbX (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 1924-1930	11.5	378
277	Riding the New Wave of Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 922-923	20.1	13
276	Defect-Assisted Photoinduced Halide Segregation in Mixed-Halide Perovskite Thin Films. <i>ACS Energy Letters</i> , 2017 , 2, 1416-1424	20.1	307
275	A ruthenium tetrazole complex-based high efficiency near infrared light electrochemical cell. <i>Chemical Communications</i> , 2017 , 53, 6211-6214	5.8	12
274	Rashba Band Splitting in Organohalide Lead Perovskites: Bulk and Surface Effects. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2247-2252	6.4	76
273	Long-Lived Photoinduced Polarons in Organohalide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3081-3086	6.4	45
272	Trends in Perovskite Solar Cells and Optoelectronics: Status of Research and Applications from the PSCO Conference. <i>ACS Energy Letters</i> , 2017 , 2, 857-861	20.1	21
271	Large-scale GW-BSE calculations with N ³ scaling: Excitonic effects in dye-sensitized solar cells. <i>Physical Review B</i> , 2017 , 95,	3.3	22
270	Broadband Emission in Two-Dimensional Hybrid Perovskites: The Role of Structural Deformation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 39-42	16.4	253
269	First principles modelling of perovskite solar cells based on TiO ₂ and Al ₂ O ₃ : stability and interfacial electronic structure. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2339-2345	13	28
268	A Conversation with Henry Snaith. <i>ACS Energy Letters</i> , 2017 , 2, 2552-2554	20.1	1
267	Fluorescent Alloy CsPb Mn I Perovskite Nanocrystals with High Structural and Optical Stability. <i>ACS Energy Letters</i> , 2017 , 2, 2183-2186	20.1	224

266	Globularity-Selected Large Molecules for a New Generation of Multication Perovskites. <i>Advanced Materials</i> , 2017 , 29, 1702005	24	67
265	Large polarons in lead halide perovskites. <i>Science Advances</i> , 2017 , 3, e1701217	14.3	374
264	Mechanism of Reversible Trap Passivation by Molecular Oxygen in Lead-Halide Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 2794-2798	20.1	86
263	Perovskite Solar Cells on Their Way to the Market. <i>ACS Energy Letters</i> , 2017 , 2, 2640-2641	20.1	5
262	A Conversation with Michael Grätzel. <i>ACS Energy Letters</i> , 2017 , 2, 1674-1676	20.1	11
261	Chlorine Incorporation in the CH ₃ NH ₃ PbI ₃ Perovskite: Small Concentration, Big Effect. <i>Inorganic Chemistry</i> , 2017 , 56, 74-83	5.1	36
260	Structural and optical properties of methylammonium lead iodide across the tetragonal to cubic phase transition: implications for perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 155-163	35.4	355
259	Surface Polarization Drives Photoinduced Charge Separation at the P3HT/Water Interface. <i>ACS Energy Letters</i> , 2016 , 1, 454-463	20.1	39
258	Cobalt Polypyridyl Complexes as Transparent Solution-Processable Solid-State Charge Transport Materials. <i>Advanced Energy Materials</i> , 2016 , 6, 1600874	21.8	17
257	Ab Initio Simulation of the Absorption Spectra of Photoexcited Carriers in TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3597-602	6.4	20
256	Light-induced annihilation of Frenkel defects in organo-lead halide perovskites. <i>Energy and Environmental Science</i> , 2016 , 9, 3180-3187	35.4	243
255	A molecularly engineered hole-transporting material for efficient perovskite solar cells. <i>Nature Energy</i> , 2016 , 1,	62.3	693
254	Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and Cobalt Electrolytes. <i>Inorganic Chemistry</i> , 2016 , 55, 6653-9	5.1	65
253	Benchmarking DFT and semi-empirical methods for a reliable and cost-efficient computational screening of benzofulvene derivatives as donor materials for small-molecule organic solar cells. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 074005	1.8	27
252	Theoretical Investigation of Adsorption, Dynamics, Self-Aggregation, and Spectroscopic Properties of the D102 Indoline Dye on an Anatase (101) Substrate. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2787-2796	2.8	20
251	New terpyridine-based ruthenium complexes for dye sensitized solar cells applications. <i>Inorganica Chimica Acta</i> , 2016 , 442, 158-166	2.7	16
250	Structural and electronic properties of dye-sensitized TiO ₂ for solar cell applications: from single molecules to self-assembled monolayers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4346-4373	7.1	41
249	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1010-6	16.4	615

248	Chapter 8:First Principles Modeling of Perovskite Solar Cells: Interplay of Structural, Electronic and Dynamical Effects. <i>RSC Energy and Environment Series</i> , 2016 , 234-296	0.6	2
247	Intrinsic Halide Segregation at Nanometer Scale Determines the High Efficiency of Mixed Cation/Mixed Halide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15821-15824	16.4	141
246	Enhanced TiO ₂ /MAPbI ₃ Electronic Coupling by Interface Modification with PbI ₂ . <i>Chemistry of Materials</i> , 2016 , 28, 3612-3615	9.6	54
245	Mobile Ions in Organohalide Perovskites: Interplay of Electronic Structure and Dynamics. <i>ACS Energy Letters</i> , 2016 , 1, 182-188	20.1	143
244	Optical absorption spectrum of the N3 solar cell sensitizer by second-order multireference perturbation theory. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	10
243	Dynamical Origin of the Rashba Effect in Organohalide Lead Perovskites: A Key to Suppressed Carrier Recombination in Perovskite Solar Cells?. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1638-45	6.4	220
242	High Open-Circuit Voltage: Fabrication of Formamidinium Lead Bromide Perovskite Solar Cells Using FluoreneDithiophene Derivatives as Hole-Transporting Materials. <i>ACS Energy Letters</i> , 2016 , 1, 107-112	20.1	92
241	Electronic and optical properties of MAPbX perovskites (X = I, Br, Cl): a unified DFT and GW theoretical analysis. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27158-27164	3.6	108
240	Vibrational Response of Methylammonium Lead Iodide: From Cation Dynamics to Phonon-Phonon Interactions. <i>ChemSusChem</i> , 2016 , 9, 2994-3004	8.3	38
239	Permanent excimer superstructures by supramolecular networking of metal quantum clusters. <i>Science</i> , 2016 , 353, 571-5	33.3	43
238	First-Principles Modeling of Organohalide Thin Films and Interfaces 2016 , 19-52		4
237	The effect of TiO ₂ surface on the electron injection efficiency in PbS quantum dot solar cells: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6076-86	3.6	18
236	Structural and electronic properties of photoexcited TiO ₂ nanoparticles from first principles. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 635-45	6.4	28
235	Structural and electronic properties of organo-halide hybrid perovskites from ab initio molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9394-409	3.6	116
234	Quantitative structure-property relationship modeling of ruthenium sensitizers for solar cells applications: novel tools for designing promising candidates. <i>RSC Advances</i> , 2015 , 5, 23865-23873	3.7	13
233	Science in the Age of Digital Networking. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2900-1	6.4	
232	Monitoring the intramolecular charge transfer process in the Z907 solar cell sensitizer: a transient Vis and IR spectroscopy and ab initio investigation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21594-604	3.6	10
231	Ab Initio Molecular Dynamics Simulations of Methylammonium Lead Iodide Perovskite Degradation by Water. <i>Chemistry of Materials</i> , 2015 , 27, 4885-4892	9.6	323

230	Thermal Fluctuations on Förster Resonance Energy Transfer in Dyadic Solar Cell Sensitizers: A Combined Ab Initio Molecular Dynamics and TDDFT Investigation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16490-16499	3.8	6
229	Energy Level Alignment at Titanium Oxide/Dye Interfaces: Implications for Electron Injection and Light Harvesting. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9899-9909	3.8	25
228	Modeling Mesoporous Nanoparticulated TiO ₂ Films through Nanopolyhedra Random Packing. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10716-10726	3.8	3
227	First-Principles Modeling of a Dye-Sensitized TiO ₂ /IrO ₂ Photoanode for Water Oxidation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5798-809	16.4	50
226	Carbazole-based sensitizers for potential application to dye sensitized solar cells. <i>Journal of Chemical Sciences</i> , 2015 , 127, 383-394	1.8	15
225	First-Principles Modeling of Core/Shell Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12739-12748	3.8	19
224	Photoinduced Energy Shift in Quantum-Dot-Sensitized TiO ₂ : A First-Principles Analysis. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1423-9	6.4	10
223	Intrinsic Thermal Instability of Methylammonium Lead Trihalide Perovskite. <i>Advanced Energy Materials</i> , 2015 , 5, 1500477	21.8	1386
222	Ligand Induced Spectral Changes in CdSe Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19736-45	9.5	46
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