Edoardo Mosconi

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.

132 papers	18,686 citations	57 h-index	136 g-index
138 ext. papers	21,214 ext. citations	12 avg, IF	7.15 L-index

#	Paper	IF	Citations
132	Understanding Performance Limiting Interfacial Recombination in pin Perovskite Solar Cells. *Advanced Energy Materials*, **2022**, 2103567	21.8	13
131	Reaction Mechanism of Photocatalytic Hydrogen Production at Water/Tin Halide Perovskite Interfaces. *ACS Energy Letters*, **2022**, 7, 1308-1315	20.1	5
130	Stability of Tin- versus Lead-Halide Perovskites: Ab Initio Molecular Dynamics Simulations of Perovskite/Water Interfaces.. *Journal of Physical Chemistry Letters*, **2022**, 2321-2329	6.4	7
129	Zn2+ and Cu2+ doping of one-dimensional lead-free hybrid perovskite ABX3 for white light emission and green solar cell applications. *Materials Research Bulletin*, **2022**, 151, 111819	5.1	0
128	First-Principles Molecular Dynamics in Metal-Halide Perovskites: Contrasting Generalized Gradient Approximation and Hybrid Functionals. *Journal of Physical Chemistry Letters*, **2021**, 11886-11893	6.4	4
127	Tuning structural isomers of phenylenediammonium to afford efficient and stable perovskite solar cells and modules. *Nature Communications*, **2021**, 12, 6394	17.4	23
126	Designing New Indene-Fullerene Derivatives as Electron-Transporting Materials for Flexible Perovskite Solar Cells.. *Journal of Physical Chemistry C*, **2021**, 125, 27344-27353	3.8	4
125	Optical and magnetic characterization of one-dimensional Cu(II)-based perovskite: a high UV□Vis□NIR absorber. *Journal of Materials Chemistry C*, **2021**, 9, 17158-17166	7.1	3
124	Ligand-engineered bandgap stability in mixed-halide perovskite LEDs. *Nature*, **2021**, 591, 72-77	50.4	172
123	Cation Engineering for Resonant Energy Level Alignment in Two-Dimensional Lead Halide Perovskites. *Journal of Physical Chemistry Letters*, **2021**, 12, 2528-2535	6.4	4
122	Energy vs Charge Transfer in Manganese-Doped Lead Halide Perovskites.. *ACS Energy Letters*, **2021**, 6, 1869-1878	20.1	12
121	Surface Reconstruction Engineering with Synergistic Effect of Mixed-Salt Passivation Treatment toward Efficient and Stable Perovskite Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2102902	15.6	17
120	Real Space-Real Time Evolution of Excitonic States Based on the Bethe-Salpeter Equation Method. *Journal of Physical Chemistry Letters*, **2021**, 12, 7261-7269	6.4	2
119	Water-Stable DMASnBr Lead-Free Perovskite for Effective Solar-Driven Photocatalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 3611-3618	16.4	29
118	A new lead-free 1D hybrid copper perovskite and its structural, thermal, vibrational, optical and magnetic characterization. *Journal of Materials Chemistry C*, **2021**, 9, 5970-5976	7.1	11
117	Halide-driven formation of lead halide perovskites: insight from ab initio molecular dynamics simulations. *Materials Advances*, **2021**, 2, 3915-3926	3.3	5
116	Decoding ultrafast polarization responses in lead halide perovskites by the two-dimensional optical Kerr effect. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8

115	Iodide vs Chloride: The Impact of Different Lead Halides on the Solution Chemistry of Perovskite Precursors. *ACS Applied Energy Materials*, **2021**, 4, 9827-9835	6.1	2
114	Experimental Strategy and Mechanistic View to Boost the Photocatalytic Activity of Cs3Bi2Br9 Lead-Free Perovskite Derivative by g-C3N4 Composite Engineering. *Advanced Functional Materials*, **2021**, 2104428	15.6	14
113	Electronic Properties and Carrier Trapping in Bi and Mn Co-doped CsPbCl Perovskite. *Journal of Physical Chemistry Letters*, **2020**, 11, 5482-5489	6.4	14
112	Charge localization and trapping at surfaces in lead-iodide perovskites: the role of polarons and defects. *Journal of Materials Chemistry A*, **2020**, 8, 6882-6892	13	28
111	Comparing the excited-state properties of a mixed-cation-mixed-halide perovskite to methylammonium lead iodide. *Journal of Chemical Physics*, **2020**, 152, 104703	3.9	8
110	Structural and Optical Properties of Solvated PbI in □Butyrolactone: Insight into the Solution Chemistry of Lead Halide Perovskite Precursors. *Journal of Physical Chemistry Letters*, **2020**, 11, 6139-6145	6.4	10
109	Transition Dipole Moments of = 1, 2, and 3 Perovskite Quantum Wells from the Optical Stark Effect and Many-Body Perturbation Theory. *Journal of Physical Chemistry Letters*, **2020**, 11, 716-723	6.4	14
108	The Doping Mechanism of Halide Perovskite Unveiled by Alkaline Earth Metals. *Journal of the American Chemical Society*, **2020**, 142, 2364-2374	16.4	65
107	Modulating Band Alignment in Mixed Dimensionality 3D/2D Perovskites by Surface Termination Ligand Engineering. *Chemistry of Materials*, **2020**, 32, 105-113	9.6	12
106	Polarons in Metal Halide Perovskites. *Advanced Energy Materials*, **2020**, 10, 1902748	21.8	47
105	Origin of pressure-induced band gap tuning in tin halide perovskites. *Materials Advances*, **2020**, 1, 2840-2845	3.3	10
104	Formation of Color Centers in Lead Iodide Perovskites: Self-Trapping and Defects in the Bulk and Surfaces. *Chemistry of Materials*, **2020**, 32, 6916-6924	9.6	15
103	Combined Computational and Experimental Investigation on the Nature of Hydrated Iodoplumbate Complexes: Insights into the Dual Role of Water in Perovskite Precursor Solutions. *Journal of Physical Chemistry B*, **2020**, 124, 11481-11490	3.4	12
102	Outstanding Passivation Effect by a Mixed-Salt Interlayer with Internal Interactions in Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 3159-3167	20.1	22
101	New Fullerene Derivative as an n-Type Material for Highly Efficient, Flexible Perovskite Solar Cells of a p-i-n Configuration. *Advanced Functional Materials*, **2020**, 30, 2004357	15.6	25
100	Controlling competing photochemical reactions stabilizes perovskite solar cells. *Nature Photonics*, **2019**, 13, 532-539	33.9	161
99	Rationalizing the Molecular Design of Hole-Selective Contacts to Improve Charge Extraction in Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1900990	21.8	37
98	An Oxa[5]helicene-Based Racemic Semiconducting Glassy Film for Photothermally Stable Perovskite Solar Cells. *IScience*, **2019**, 15, 234-242	6.1	24

97	Understanding the Solution Chemistry of Lead Halide Perovskites Precursors. *ACS Applied Energy Materials*, **2019**, 2, 3400-3409	6.1	40
96	Synthesis, Properties, and Modeling of Cs1�RbxSnBr3 Solid Solution: A New Mixed-Cation Lead-Free All-Inorganic Perovskite System. *Chemistry of Materials*, **2019**, 31, 3527-3533	9.6	21
95	Charge Carriers Are Not Affected by the Relatively Slow-Rotating Methylammonium Cations in Lead Halide Perovskite Thin Films. *Journal of Physical Chemistry Letters*, **2019**, 10, 5128-5134	6.4	11
94	Energy Level Tuning at the MAPbI3 Perovskite/Contact Interface Using Chemical Treatment. *ACS Energy Letters*, **2019**, 4, 2181-2184	20.1	31
93	Stabilizing halide perovskite surfaces for solar cell operation with wide-bandgap lead oxysalts. *Science*, **2019**, 365, 473-478	33.3	460
92	Charge Localization, Stabilization, and Hopping in Lead Halide Perovskites: Competition between Polaron Stabilization and Cation Disorder. *ACS Energy Letters*, **2019**, 4, 2013-2020	20.1	32
91	Electronic structure of MAPbI and MAPbCl: importance of band alignment. *Scientific Reports*, **2019**, 9, 15159	4.9	21
90	Solvent-Free Synthetic Route for Cerium(IV) Metal-Organic Frameworks with UiO-66 Architecture and Their Photocatalytic Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 45031-45037	9.5	34
89	Band Gap Engineering in MASnBr and CsSnBr Perovskites: Mechanistic Insights through the Application of Pressure. *Journal of Physical Chemistry Letters*, **2019**, 10, 7398-7405	6.4	31
88	Formation of Surface Defects Dominates Ion Migration in Lead-Halide Perovskites. *ACS Energy Letters*, **2019**, 4, 779-785	20.1	135
87	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
86	Infrared Dielectric Screening Determines the Low Exciton Binding Energy of Metal-Halide Perovskites. *Journal of Physical Chemistry Letters*, **2018**, 9, 620-627	6.4	62
85	Modeling the Interaction of Molecular Iodine with MAPbI3: A Probe of Lead-Halide Perovskites Defect Chemistry. *ACS Energy Letters*, **2018**, 3, 447-451	20.1	66
84	Iodine chemistry determines the defect tolerance of lead-halide perovskites. *Energy and Environmental Science*, **2018**, 11, 702-713	35.4	353
83	First-Principles Modeling of Bismuth Doping in the MAPbI3 Perovskite. *Journal of Physical Chemistry C*, **2018**, 122, 14107-14112	3.8	41
82	Ultrafast THz Fingerprints of Large Polaron formation in Lead-Halide Perovskites **2018**,		1
81	From Experiments to a Fast Easy-to-Use Computational Methodology to Predict Human Aldehyde Oxidase Selectivity and Metabolic Reactions. *Journal of Medicinal Chemistry*, **2018**, 61, 360-371	8.3	21
80	Dynamical Rashba Band Splitting in Hybrid Perovskites Modeled by Local Electric Fields. *Journal of Physical Chemistry C*, **2018**, 122, 124-132	3.8	7

79	Large electrostrictive response in lead halide perovskites. *Nature Materials*, **2018**, 17, 1020-1026	27	89
78	Ionotronic Halide Perovskite Drift-Diffusive Synapses for Low-Power Neuromorphic Computation. *Advanced Materials*, **2018**, 30, e1805454	24	91
77	Exploring the Limits of Three-Dimensional Perovskites: The Case of FAPb1SnxBr3. *ACS Energy Letters*, **2018**, 3, 1353-1359	20.1	23
76	Nearly Monodisperse Insulator CsPbX (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX Nanocrystals. *Nano Letters*, **2017**, 17, 1924-1930	11.5	378
75	Defect-Assisted Photoinduced Halide Segregation in Mixed-Halide Perovskite Thin Films. *ACS Energy Letters*, **2017**, 2, 1416-1424	20.1	307
74	Rashba Band Splitting in Organohalide Lead Perovskites: Bulk and Surface Effects. *Journal of Physical Chemistry Letters*, **2017**, 8, 2247-2252	6.4	76
73	Long-Lived Photoinduced Polarons in Organohalide Perovskites. *Journal of Physical Chemistry Letters*, **2017**, 8, 3081-3086	6.4	45
72	One-Year stable perovskite solar cells by 2D/3D interface engineering. *Nature Communications*, **2017**, 8, 15684	17.4	1253
71	Trends in Perovskite Solar Cells and Optoelectronics: Status of Research and Applications from the PSCO Conference. *ACS Energy Letters*, **2017**, 2, 857-861	20.1	21
70	Large-scale GW-BSE calculations with N3 scaling: Excitonic effects in dye-sensitized solar cells. *Physical Review B*, **2017**, 95,	3.3	22
69	Broadband Emission in Two-Dimensional Hybrid Perovskites: The Role of Structural Deformation. *Journal of the American Chemical Society*, **2017**, 139, 39-42	16.4	253
68	First principles modelling of perovskite solar cells based on TiO2 and Al2O3: stability and interfacial electronic structure. *Journal of Materials Chemistry A*, **2017**, 5, 2339-2345	13	28
67	Unveiling the nature of post-linear response Z-vector method for time-dependent density functional theory. *Journal of Chemical Physics*, **2017**, 147, 024108	3.9	21
66	Globularity-Selected Large Molecules for a New Generation of Multication Perovskites. *Advanced Materials*, **2017**, 29, 1702005	24	67
65	Large polarons in lead halide perovskites. *Science Advances*, **2017**, 3, e1701217	14.3	374
64	Mechanism of Reversible Trap Passivation by Molecular Oxygen in Lead-Halide Perovskites. *ACS Energy Letters*, **2017**, 2, 2794-2798	20.1	86
63	Chlorine Incorporation in the CHNHPbI Perovskite: Small Concentration, Big Effect. *Inorganic Chemistry*, **2017**, 56, 74-83	5.1	36
62	Structural and optical properties of methylammonium lead iodide across the tetragonal to cubic phase transition: implications for perovskite solar cells. *Energy and Environmental Science*, **2016**, 9, 155-163	35.4	355

61	Surface Polarization Drives Photoinduced Charge Separation at the P3HT/Water Interface. *ACS Energy Letters*, **2016**, 1, 454-463	20.1	39
60	Light-induced annihilation of Frenkel defects in organo-lead halide perovskites. *Energy and Environmental Science*, **2016**, 9, 3180-3187	35.4	243
59	A molecularly engineered hole-transporting material for efficient perovskite solar cells. *Nature Energy*, **2016**, 1,	62.3	693
58	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. *Journal of the American Chemical Society*, **2016**, 138, 1010-6	16.4	615
57	Chapter 8:First Principles Modeling of Perovskite Solar Cells: Interplay of Structural, Electronic and Dynamical Effects. *RSC Energy and Environment Series*, **2016**, 234-296	0.6	2
56	Intrinsic Halide Segregation at Nanometer Scale Determines the High Efficiency of Mixed Cation/Mixed Halide Perovskite Solar Cells. *Journal of the American Chemical Society*, **2016**, 138, 15821-15824	16.4	141
55	Enhanced TiO2/MAPbI3 Electronic Coupling by Interface Modification with PbI2. *Chemistry of Materials*, **2016**, 28, 3612-3615	9.6	54
54	Mobile Ions in Organohalide Perovskites: Interplay of Electronic Structure and Dynamics. *ACS Energy Letters*, **2016**, 1, 182-188	20.1	143
53	Dynamical Origin of the Rashba Effect in Organohalide Lead Perovskites: A Key to Suppressed Carrier Recombination in Perovskite Solar Cells?. *Journal of Physical Chemistry Letters*, **2016**, 7, 1638-45	6.4	220
52	High Open-Circuit Voltage: Fabrication of Formamidinium Lead Bromide Perovskite Solar Cells Using FluoreneDithiophene Derivatives as Hole-Transporting Materials. *ACS Energy Letters*, **2016**, 1, 107-112	20.1	92
51	Electronic and optical properties of MAPbX perovskites (X = I, Br, Cl): a unified DFT and GW theoretical analysis. *Physical Chemistry Chemical Physics*, **2016**, 18, 27158-27164	3.6	108
50	First-Principles Modeling of Organohalide Thin Films and Interfaces **2016**, 19-52		4
49	Structural and electronic properties of organo-halide hybrid perovskites from ab initio molecular dynamics. *Physical Chemistry Chemical Physics*, **2015**, 17, 9394-409	3.6	116
48	Ab Initio Molecular Dynamics Simulations of Methylammonium Lead Iodide Perovskite Degradation by Water. *Chemistry of Materials*, **2015**, 27, 4885-4892	9.6	323
47	Thermal Fluctuations on Fster Resonance Energy Transfer in Dyadic Solar Cell Sensitizers: A Combined Ab Initio Molecular Dynamics and TDDFT Investigation. *Journal of Physical Chemistry C*, **2015**, 119, 16490-16499	3.8	6
46	Intrinsic Thermal Instability of Methylammonium Lead Trihalide Perovskite. *Advanced Energy Materials*, **2015**, 5, 1500477	21.8	1386
45	CHNHPbI perovskite single crystals: surface photophysics and their interaction with the environment. *Chemical Science*, **2015**, 6, 7305-7310	9.4	171
44	Water Oxidation by the [Co4O4(OAc)4(py)4](+) Cubium is Initiated by OH(-) Addition. *Journal of the American Chemical Society*, **2015**, 137, 15460-8	16.4	58

43	Photoinduced Reversible Structural Transformations in Free-Standing CH3NH3PbI3 Perovskite Films. *Journal of Physical Chemistry Letters*, **2015**, 6, 2332-8	6.4	172
42	Origin of the Thermal Instability in CH3NH3PbI3 Thin Films Deposited on ZnO. *Chemistry of Materials*, **2015**, 27, 4229-4236	9.6	448
41	Defect migration in methylammonium lead iodide and its role in perovskite solar cell operation. *Energy and Environmental Science*, **2015**, 8, 2118-2127	35.4	1003
40	Electronic and optical properties of mixed SnPb organohalide perovskites: a first principles investigation. *Journal of Materials Chemistry A*, **2015**, 3, 9208-9215	13	156
39	Relativistic GW calculations on CH3NH3PbI3 and CH3NH3SnI3 perovskites for solar cell applications. *Scientific Reports*, **2014**, 4, 4467	4.9	910
38	Effect of Structural Dynamics on the Opto-Electronic Properties of Bare and Hydrated ZnS QDs. *Journal of Physical Chemistry C*, **2014**, 118, 3274-3284	3.8	11
37	Stark effect in perovskite/TiO2 solar cells: evidence of local interfacial order. *Nano Letters*, **2014**, 14, 2168-74	11.5	182
36	Cation-induced band-gap tuning in organohalide perovskites: interplay of spin-orbit coupling and octahedra tilting. *Nano Letters*, **2014**, 14, 3608-16	11.5	837
35	The Raman Spectrum of the CH3NH3PbI3 Hybrid Perovskite: Interplay of Theory and Experiment. *Journal of Physical Chemistry Letters*, **2014**, 5, 279-84	6.4	476
34	Computational modeling of single- versus double-anchoring modes in di-branched organic sensitizers on TiO2 surfaces: structural and electronic properties. *Physical Chemistry Chemical Physics*, **2014**, 16, 4709-19	3.6	26
33	Interplay of Orientational Order and Electronic Structure in Methylammonium Lead Iodide: Implications for Solar Cell Operation. *Chemistry of Materials*, **2014**, 26, 6557-6569	9.6	252
32	First-Principles Investigation of the TiO2/Organohalide Perovskites Interface: The Role of Interfacial Chlorine. *Journal of Physical Chemistry Letters*, **2014**, 5, 2619-25	6.4	228
31	Extremely Slow Photoconductivity Response of CH3NH3PbI3 Perovskites Suggesting Structural Changes under Working Conditions. *Journal of Physical Chemistry Letters*, **2014**, 5, 2662-9	6.4	277
30	Elusive Presence of Chloride in Mixed Halide Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 3532-8	6.4	160
29	Thiocyanate-free ruthenium(II) sensitizers for dye-sensitized solar cells based on the cobalt redox couple. *ChemSusChem*, **2014**, 7, 2930-8	8.3	18
28	Effect of Molecular Fluctuations on Hole Diffusion within Dye Monolayers. *Chemistry of Materials*, **2014**, 26, 4731-4740	9.6	20
27	Structural and electronic properties of organo-halide lead perovskites: a combined IR-spectroscopy and ab initio molecular dynamics investigation. *Physical Chemistry Chemical Physics*, **2014**, 16, 16137-44	3.6	195
26	MAPbI3-xClx mixed halide perovskite for hybrid solar cells: the role of chloride as dopant on the transport and structural properties. *Materials Research Society Symposia Proceedings*, **2014**, 1667, 41		2

25	Alignment of energy levels in dye/semiconductor interfaces by GW calculations: Effects due to coadsorption of solvent molecules. *Physical Review B*, **2014**, 90,	3.3	11
24	Investigating Charge Dynamics in Halide Perovskite Sensitized Mesostructured Solar Cells. *Materials Research Society Symposia Proceedings*, **2014**, 1667, 7		2
23	A new terpyridine cobalt complex redox shuttle for dye-sensitized solar cells. *Inorganica Chimica Acta*, **2013**, 406, 106-112	2.7	18
22	Boron Functionalization and Unusual B−C Bond Activation in Rhodium(III) and Iridium(III) Complexes with Diphenylbis(pyrazolylborate) Ligands (Ph2Bp). *Organometallics*, **2013**, 32, 3895-3902	3.8	7
21	Computational Modeling of Isoindigo-Based Polymers Used in Organic Solar Cells. *Journal of Physical Chemistry C*, **2013**, 117, 17940-17954	3.8	27
20	MAPbI3-xClx Mixed Halide Perovskite for Hybrid Solar Cells: The Role of Chloride as Dopant on the Transport and Structural Properties. *Chemistry of Materials*, **2013**, 25, 4613-4618	9.6	658
19	Inherent electronic trap states in TiO2 nanocrystals: effect of saturation and sintering. *Energy and Environmental Science*, **2013**, 6, 1221	35.4	68
18	Supramolecular Interactions of Chenodeoxycholic Acid Increase the Efficiency of Dye-Sensitized Solar Cells Based on a Cobalt Electrolyte. *Journal of Physical Chemistry C*, **2013**, 117, 3874-3887	3.8	76
17	First-Principles Modeling of Mixed Halide Organometal Perovskites for Photovoltaic Applications. *Journal of Physical Chemistry C*, **2013**, 117, 13902-13913	3.8	767
16	Cobalt electrolyte/dye interactions in dye-sensitized solar cells: a combined computational and experimental study. *Journal of the American Chemical Society*, **2012**, 134, 19438-53	16.4	185
15	Adsorption of organic dyes on TiO2 surfaces in dye-sensitized solar cells: interplay of theory and experiment. *Physical Chemistry Chemical Physics*, **2012**, 14, 15963-74	3.6	133
14	A vinylene-linked benzo[1,2-b:4,5-b′]dithiophene-2,1,3-benzothiadiazole low-bandgap polymer. *Journal of Polymer Science Part A*, **2012**, 50, 2829-2840	2.5	20
13	Solvent Effects on the Adsorption Geometry and Electronic Structure of Dye-Sensitized TiO2: A First-Principles Investigation. *Journal of Physical Chemistry C*, **2012**, 116, 5932-5940	3.8	74
12	Computational Investigation of Dye−Iodine Interactions in Organic Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2012**, 116, 5965-5973	3.8	82
11	Computational Investigations on Organic Sensitizers for Dye-Sensitized Solar Cell. *Current Organic Synthesis*, **2012**, 9, 215-232	1.9	18
10	Modeling ZnS and ZnO Nanostructures: Structural, Electronic, and Optical Properties. *Journal of Physical Chemistry C*, **2011**, 115, 25219-25226	3.8	51
9	Absorption Spectra and Excited State Energy Levels of the N719 Dye on TiO2 in Dye-Sensitized Solar Cell Models. *Journal of Physical Chemistry C*, **2011**, 115, 8825-8831	3.8	200
8	DFT Investigation of Ligand-Based Reduction of CO2to CO on an Anionic Niobium Nitride Complex: Reaction Mechanism and Role of the Na+Counterion. *Organometallics*, **2011**, 30, 4838-4846	3.8	10

7	Pyridine□EDOT Heteroarylene□Vinylene Donor□Acceptor Polymers?. *Macromolecules*, **2010**, 43, 9698-9713	5.5	22
6	A Computational Investigation of Organic Dyes for Dye-Sensitized Solar Cells: Benchmark, Strategies, and Open Issues. *Journal of Physical Chemistry C*, **2010**, 114, 7205-7212	3.8	302
5	DFT studies of □elimination reactions in water solution with different bases: Theory vs experiment. *Computational and Theoretical Chemistry*, **2010**, 940, 103-114		3
4	Merging of E2 and E1cb Reaction Mechanisms: A Combined Theoretical and Experimental Study. *European Journal of Organic Chemistry*, **2009**, 2009, 5501-5504	3.2	10
3	Di-branched di-anchoring organic dyes for dye-sensitized solar cells. *Energy and Environmental Science*, **2009**, 2, 1094	35.4	175
2	High open-circuit voltage solid-state dye-sensitized solar cells with organic dye. *Nano Letters*, **2009**, 9, 2487-92	11.5	220
1	A DFT investigation of base-catalyzed □elimination reactions in water solution for systems activated by the pyridine ring: Theory vs. experiment. *Chemical Physics Letters*, **2008**, 460, 100-107	2.5	5