J-E Moser

List of Publications by Year
in descending order

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183 papers	36,466 citations	9756 73 h-index	4101 175 g-index
187 all docs	187 docs citations	187 times ranked	26784 citing authors

#	Article	IF	Citations
1	Lead Iodide Perovskite Sensitized All-Solid-State Submicron Thin Film Mesoscopic Solar Cell with Efficiency Exceeding 9%. Scientific Reports, 2012, 2, 591.	1.6	6,763
2	Solid-state dye-sensitized mesoporous TiO2 solar cells with high photon-to-electron conversion efficiencies. Nature, 1998, 395, 583-585.	13.7	3,353
3	Electrochemical Impedance Spectroscopic Analysis of Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2005, 109, 14945-14953.	1.2	1,855
4	A stable quasi-solid-state dye-sensitized solar cell with an amphiphilic ruthenium sensitizer and polymer gel electrolyte. Nature Materials, 2003, 2, 402-407.	13.3	1,466
5	Dye-sensitized solar cells for efficient power generation under ambient lighting. Nature Photonics, 2017, 11, 372-378.	15.6	871
6	Subpicosecond Interfacial Charge Separation in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. The Journal of Physical Chemistry, 1996, 100, 20056-20062.	2.9	815
7	Vectorial electron injection into transparent semiconductor membranes and electric field effects on the dynamics of light-induced charge separation. The Journal of Physical Chemistry, 1990, 94, 8720-8726.	2.9	700
8	Unreacted PbI₂ as a Double-Edged Sword for Enhancing the Performance of Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 10331-10343.	6.6	696
9	Unravelling the mechanism of photoinduced charge transfer processes in lead iodide perovskite solar cells. Nature Photonics, 2014, 8, 250-255.	15.6	648
10	Charge carrier trapping and recombination dynamics in small semiconductor particles. Journal of the American Chemical Society, 1985, 107, 8054-8059.	6.6	616
11	Parameters Influencing Charge Recombination Kinetics in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. Journal of Physical Chemistry B, 2000, 104, 538-547.	1.2	613
12	A New Ionic Liquid Electrolyte Enhances the Conversion Efficiency of Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2003, 107, 13280-13285.	1.2	607
13	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. Nature Communications, 2012, 3, 631.	5.8	554
14	High Molar Extinction Coefficient Heteroleptic Ruthenium Complexes for Thin Film Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 4146-4154.	6.6	538
15	Surface complexation of colloidal semiconductors strongly enhances interfacial electron-transfer rates. Langmuir, 1991, 7, 3012-3018.	1.6	522
16	An organic redox electrolyte to rival triiodide/iodide in dye-sensitized solar cells. Nature Chemistry, 2010, 2, 385-389.	6.6	510
17	Efficiencies of photoinduced electron-transfer reactions: role of the Marcus inverted region in return electron transfer within geminate radical-ion pairs. Journal of the American Chemical Society, 1990, 112, 4290-4301.	6.6	428
18	Significant Improvement of Dyeâ€Sensitized Solar Cell Performance by Small Structural Modification in Ï€â€Conjugated Donorâ€"Acceptor Dyes. Advanced Functional Materials, 2012, 22, 1291-1302.	7.8	404

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19	CoII(dbbip)22+ Complex Rivals Tri-iodide/Iodide Redox Mediator in Dye-Sensitized Photovoltaic Cells. Journal of Physical Chemistry B, 2001, 105, 10461-10464.	1.2	402
20	Femtosecond Electron-Transfer Dynamics at a Sensitizing Dyeâˆ’Semiconductor (TiO2) Interface. The Journal of Physical Chemistry, 1996, 100, 9577-9578.	2.9	399
21	Highly efficient sensitization of titanium dioxide. Journal of the American Chemical Society, 1985, 107, 2988-2990.	6.6	392
22	Charge Separation and Efficient Light Energy Conversion in Sensitized Mesoscopic Solar Cells Based on Binary Ionic Liquids. Journal of the American Chemical Society, 2005, 127, 6850-6856.	6.6	383
23	A New Antiâ€Counterfeiting Feature Relying on Invisible Luminescent Full Color Images Printed with Lanthanideâ€Based Inks. Advanced Functional Materials, 2014, 24, 5029-5036.	7.8	368
24	A Solvent-Free, SeCN-/(SeCN)3- Based Ionic Liquid Electrolyte for High-Efficiency Dye-Sensitized Nanocrystalline Solar Cells. Journal of the American Chemical Society, 2004, 126, 7164-7165.	6.6	364
25	Cooperative Effect of Adsorbed Cations and Iodide on the Interception of Back Electron Transfer in the Dye Sensitization of Nanocrystalline TiO2. Journal of Physical Chemistry B, 2000, 104, 1791-1795.	1.2	341
26	High-Efficiency and Stable Mesoscopic Dye-Sensitized Solar Cells Based on a High Molar Extinction Coefficient Ruthenium Sensitizer and Nonvolatile Electrolyte. Advanced Materials, 2007, 19, 1133-1137.	11.1	332
27	Stable New Sensitizer with Improved Light Harvesting for Nanocrystalline Dye-Sensitized Solar Cells. Advanced Materials, 2004, 16, 1806-1811.	11.1	324
28	Photosensitized electron injection in colloidal semiconductors. Journal of the American Chemical Society, 1984, 106, 6557-6564.	6.6	312
29	Photoelectrochemical Studies on Nanocrystalline Hematite Films. Chemistry of Materials, 1994, 6, 858-863.	3.2	307
30	Synthesis and Characterization of High-Photoactivity Electrodeposited Cu₂O Solar Absorber by Photoelectrochemistry and Ultrafast Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 7341-7350.	1.5	305
31	An Alternative Efficient Redox Couple for the Dye-Sensitized Solar Cell System. Chemistry - A European Journal, 2003, 9, 3756-3763.	1.7	304
32	The Role of Surface States in the Ultrafast Photoinduced Electron Transfer from Sensitizing Dye Molecules to Semiconductor Colloids. Journal of Physical Chemistry B, 2000, 104, 8995-9003.	1.2	269
33	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. Nature Communications, 2019, 10, 3008.	5.8	268
34	Molecular-Scale Interface Engineering of TiO2 Nanocrystals: Improve the Efficiency and Stability of Dye-Sensitized Solar Cells. Advanced Materials, 2003, 15, 2101-2104.	11.1	266
35	Nanocrystalline Mesoporous Strontium Titanate as Photoelectrode Material for Photosensitized Solar Devices:â€‰ Increasing Photovoltage through Flatband Potential Engineering. Journal of Physical Chemistry B, 1999, 103, 9328-9332.	1.2	258
36	Long-Lived Photoinduced Charge Separation and Redox-Type Photochromism on Mesoporous Oxide Films Sensitized by Molecular Dyads. Journal of the American Chemical Society, 1999, 121, 1324-1336.	6.6	253

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37	Real-Time Observation of Photoinduced Adiabatic Electron Transfer in Strongly Coupled Dye/Semiconductor Colloidal Systems with a 6 fs Time Constant. Journal of Physical Chemistry B, 2002, 106, 6494-6499.	1.2	239
38	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. Journal of the American Chemical Society, 2016, 138, 15087-15096.	6.6	239
39	Controlling Phosphorescence Color and Quantum Yields in Cationic Iridium Complexes:Â A Combined Experimental and Theoretical Study. Inorganic Chemistry, 2007, 46, 5989-6001.	1.9	237
40	Enhanced Electron Collection Efficiency in Dye-Sensitized Solar Cells Based on Nanostructured TiO₂ Hollow Fibers. Nano Letters, 2010, 10, 1632-1638.	4.5	234
41	11% efficiency solid-state dye-sensitized solar cells with copper(II/I) hole transport materials. Nature Communications, 2017, 8, 15390.	5.8	229
42	Rationale for Kinetic Heterogeneity of Ultrafast Light-Induced Electron Transfer from Ru(II) Complex Sensitizers to Nanocrystalline TiO2. Journal of the American Chemical Society, 2005, 127, 12150-12151.	6.6	213
43	Observation of temperature independent heterogeneous electron transfer reactions in the inverted Marcus region. Chemical Physics, 1993, 176, 493-500.	0.9	206
44	Visible and Near-Infrared Luminescence of Lanthanide-Containing Dimetallic Triple-Stranded Helicates:Â Energy Transfer Mechanisms in the SmIIIand YbIIIMolecular Edifices. Journal of Physical Chemistry A, 2002, 106, 1670-1677.	1.1	199
45	A molecular photosensitizer achieves a Voc of 1.24â€‰V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. Nature Communications, 2021, 12, 1777.	5.8	196
46	Charge Separation in Solid-State Dye-Sensitized Heterojunction Solar Cells. Journal of the American Chemical Society, 1999, 121, 7445-7446.	6.6	195
47	Conversion of Light into Electricity with Trinuclear Ruthenium Complexes Adsorbed on Textured TiO2Films. Helvetica Chimica Acta, 1990, 73, 1788-1803.	1.0	194
48	Light-induced electron transfer in colloidal semiconductor dispersions: single vs. dielectronic reduction of acceptors by conduction-band electrons. Journal of the American Chemical Society, 1983, 105, 6547-6555.	6.6	191
49	Stable, Highâ€Efficiency Ionicâ€Liquidâ€Based Mesoscopic Dyeâ€Sensitized Solar Cells. Small, 2007, 3, 2094-2102.	5.2	191
50	Efficient Electron Transfer and Sensitizer Regeneration in Stable Ï€-Extended Tetrathiafulvalene-Sensitized Solar Cells. Journal of the American Chemical Society, 2010, 132, 5164-5169.	6.6	188
51	Modulation of the Rate of Electron Injection in Dye-Sensitized Nanocrystalline TiO2Films by Externally Applied Bias. Journal of Physical Chemistry B, 2001, 105, 7424-7431.	1.2	171
52	Ion Coordinating Sensitizer for High Efficiency Mesoscopic Dye-Sensitized Solar Cells:â€‰ Influence of Lithium Ions on the Photovoltaic Performance of Liquid and Solid-State Cells. Nano Letters, 2006, 6, 769-773.	4.5	161
53	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. Chemistry of Materials, 2013, 25, 2733-2739.	3.2	154
54	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. Energy and Environmental Science, 2018, 11, 1779-1787.	15.6	148

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55	High Molar Extinction Coefficient Ion-Coordinating Ruthenium Sensitizer for Efficient and Stable Mesoscopic Dye-Sensitized Solar Cells. Advanced Functional Materials, 2007, 17, 154-160.	7.8	147
56	Charge migration and charge transfer in molecular systems. Structural Dynamics, 2017, 4, 061508.	0.9	146
57	The Effect of Hole Transport Material Pore Filling on Photovoltaic Performance in Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2011, 1, 407-414.	10.2	130
58	Merocyanine Aggregation in Mesoporous Networks. Journal of the American Chemical Society, 1996, 118, 5420-5431.	6.6	127
59	Electron-transfer reactions in the Marcus inverted region. Charge recombination versus charge shift reactions. Journal of the American Chemical Society, 1989, 111, 1917-1919.	6.6	116
60	Comment on â€œMeasurement of Ultrafast Photoinduced Electron Transfer from Chemically Anchored Ruâ˜'Dye Molecules into Empty Electronic States in a Colloidal Anatase TiO2Filmâ€. Journal of Physical Chemistry B, 1998, 102, 3649-3650.	1.2	114
61	Inhibition of Electron-Hole Recombination in Substitutionally Doped Colloidal Semiconductor Crystallites. Helvetica Chimica Acta, 1987, 70, 1596-1604.	1.0	111
62	Amphiphilic Ruthenium Sensitizer with 4,4â€˜-Diphosphonic Acid-2,2â€˜-bipyridine as Anchoring Ligand for Nanocrystalline Dye Sensitized Solar Cells. Journal of Physical Chemistry B, 2004, 108, 17553-17559.	1.2	105
63	Atomic-Level Microstructure of Efficient Formamidinium-Based Perovskite Solar Cells Stabilized by 5-Ammonium Valeric Acid Iodide Revealed by Multinuclear and Two-Dimensional Solid-State NMR. Journal of the American Chemical Society, 2019, 141, 17659-17669.	6.6	104
64	Photoelectrochemistry with Colloidal Semiconductors; Laser Studies of Halide Oxidation in Colloidal Dispersions of TiO2and Î±-Fe2O3. Helvetica Chimica Acta, 1982, 65, 1436-1444.	1.0	102
65	New pyrido[3,4-b]pyrazine-based sensitizers for efficient and stable dye-sensitized solar cells. Chemical Science, 2014, 5, 206-214.	3.7	102
66	Synthesis, Characterization, and Photocatalytic Activities of Nanoparticulate N, S-Codoped TiO₂ Having Different Surface-to-Volume Ratios. Journal of Physical Chemistry C, 2010, 114, 2717-2723.	1.5	99
67	Femtosecond Dynamics of Interfacial and Intermolecular Electron Transfer at Eosin-Sensitized Metal Oxide Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 3215-3224.	1.2	98
68	Energy and Hole Transfer between Dyes Attached to Titania in Cosensitized Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 10662-10667.	6.6	96
69	Molecular photovoltaics. Coordination Chemistry Reviews, 1998, 171, 245-250.	9.5	92
70	Achievement of incident photon to electric current conversion yields exceeding 80% in the spectral sensitization of titanium dioxide by coumarin. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 259, 59-65.	0.3	89
71	Dissociation of Charge Transfer States and Carrier Separation in Bilayer Organic Solar Cells: A Time-Resolved Electroabsorption Spectroscopy Study. Journal of the American Chemical Society, 2015, 137, 8192-8198.	6.6	86
72	Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and Cobalt Electrolytes. Inorganic Chemistry, 2016, 55, 6653-6659.	1.9	80

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73	High efficiency solid-state sensitized heterojunction photovoltaic device. Nano Today, 2010, 5, 169-174.	6.2	76
74	Butyronitrile-Based Electrolyte for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 13103-13109.	6.6	75
75	A Close Look at Charge Generation in Polymer:Fullerene Blends with Microstructure Control. Journal of the American Chemical Society, 2015, 137, 2908-2918.	6.6	75
76	Molecular design of metal-free Dâ€“Ï€-A substituted sensitizers for dye-sensitized solar cells. Energy and Environmental Science, 2010, 3, 1757.	15.6	70
77	Effect of molecular dimension on the rate of return electron transfer within photoproduced geminate radical ion pairs. Journal of the American Chemical Society, 1988, 110, 1991-1993.	6.6	69
78	The fate of electronâ€“hole pairs in polymer:fullerene blends for organic photovoltaics. Nature Communications, 2016, 7, 12556.	5.8	68
79	Engineering of thiocyanate-free Ru(ii) sensitizers for high efficiency dye-sensitized solar cells. Chemical Science, 2013, 4, 2423.	3.7	67
80	Extraordinarily Efficient Conduction in a Redoxâ€Active Ionic Liquid. ChemPhysChem, 2011, 12, 145-149.	1.0	65
81	Voltage enhancement in dye-sensitized solar cell using (001)-oriented anatase TiO2 nanosheets. Journal of Solid State Electrochemistry, 2012, 16, 2993-3001.	1.2	64
82	Effect of Extended Ï€-Conjugation of the Donor Structure of Organic Dâ€“Aâˆ'Ï€â€“A Dyes on the Photovoltaic Performance of Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16486-16493.	1.5	63
83	Exciton, Biexciton, and Hot Exciton Dynamics in CsPbBr₃ Colloidal Nanoplatelets. Journal of Physical Chemistry Letters, 2020, 11, 387-394.	2.1	62
84	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2013, 52, 8731-8735.	7.2	61
85	Phenanthreneâ€Fusedâ€Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copperâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 9324-9329.	7.2	59
86	EPR study of vanadium (4+) in the anatase and rutile phases ofTiO2. Physical Review B, 1986, 34, 3060-3068.	1.1	56
87	Influence of Iodide Concentration on the Efficiency and Stability of Dyeâ€Sensitized Solar Cell Containing Nonâ€Volatile Electrolyte. ChemPhysChem, 2009, 10, 1834-1838.	1.0	54
88	Influence of the Anchoring Modes on the Electronic and Photovoltaic Properties of Dâˆ'Ï€â€“A Dyes. Journal of Physical Chemistry C, 2012, 116, 16876-16884.	1.5	53
89	High Extinction Coefficient â€œAntennaâ€•Dye in Solid-State Dye-Sensitized Solar Cells: A Photophysical and Electronic Study. Journal of Physical Chemistry C, 2008, 112, 7562-7566.	1.5	52
90	Photoinduced Interfacial Electron Injection Dynamics in Dye-Sensitized Solar Cells under Photovoltaic Operating Conditions. Journal of Physical Chemistry Letters, 2012, 3, 3786-3790.	2.1	52

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91	Time-resolved rise of iodine molecule (1-) upon oxidation of iodide at aqueous titania colloid. The Journal of Physical Chemistry, 1993, 97, 3806-3812.	2.9	50
92	Amphiphilic Polypyridyl Ruthenium Complexes with Substituted 2,2â€˜-Dipyridylamine Ligands for Nanocrystalline Dye-Sensitized Solar Cells. Chemistry of Materials, 2004, 16, 3246-3251.	3.2	50
93	Position-Dependent Extension of Ï€-Conjugation in D-Ï€-A Dye Sensitizers and the Impact on the Charge-Transfer Properties. Journal of Physical Chemistry C, 2013, 117, 13805-13815.	1.5	50
94	Photoinduced Charge Injection from Vibronically Hot Excited Molecules of a Dye Sensitizer into Acceptor States of Wide-Bandgap Oxide Semiconductors. Zeitschrift Fur Physikalische Chemie, 1999, 212, 85-92.	1.4	49
95	Organization and Reactivity of Nanoparticles at Molecular Interfaces. Part I. Photoelectrochemical Responses Involving TiO2 Nanoparticles Assembled at Polarizable Water | 1,2-Dichloroethane Junctions. Journal of Physical Chemistry B, 2002, 106, 10908-10914.	1.2	49
96	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. Chemistry of Materials, 2013, 25, 2642-2648.	3.2	49
97	Effect of Coordination Sphere Geometry of Copper Redox Mediators on Regeneration and Recombination Behavior in Dye-Sensitized Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 4950-4962.	2.5	49
98	Picosecond Time Resolved Studies of Photosensitized Electron Injection in Colloidal Semiconductors. Helvetica Chimica Acta, 1985, 68, 1686-1690.	1.0	48
99	The influence of microstructure on charge separation dynamics in organic bulk heterojunction materials for solar cell applications. Journal of Materials Chemistry A, 2014, 2, 6218-6230.	5.2	48
100	Slow recombination unveiled. Nature Materials, 2017, 16, 4-6.	13.3	47
101	Crystal Orientation Drives the Interface Physics at Two/Three-Dimensional Hybrid Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 5713-5720.	2.1	47
102	The Excitation Wavelength and Solvent Dependance of the Kinetics of Electron Injection in Ru(dcbpy)₂(NCS)₂ Sensitized Nanocrystalline TiO₂ Films. Zeitschrift Fur Physikalische Chemie, 1999, 212, 93-98.	1.4	44
103	Observation of photoinduced electron transfer in dye/semiconductor colloidal systems with different coupling strengths. Chemical Physics, 2002, 285, 39-45.	0.9	43
104	Energy and charge transfer cascade in methylammonium lead bromide perovskite nanoparticle aggregates. Chemical Science, 2017, 8, 4371-4380.	3.7	40
105	Enhanced cyanine solar cell performance upon oxygen doping. Organic Electronics, 2008, 9, 85-94.	1.4	39
106	Quantitative Diffuse Reflectance and Transmittance Infrared Spectroscopy of Nondiluted Powders. Applied Spectroscopy, 1992, 46, 1874-1886.	1.2	37
107	Photoinduced electron transfer and redox-type photochromism of a TiO2-anchored molecular diad. Chemical Communications, 1996, , 1163-1164.	2.2	37
108	Application of Cu(ii) and Zn(ii) coproporphyrins as sensitizers for thin film dye sensitized solar cells. Energy and Environmental Science, 2010, 3, 956.	15.6	37

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109	Dynamics of Photoinduced Interfacial Electron Transfer and Charge Transport in Dye-Sensitized Mesoscopic Semiconductors. Chimia, 2007, 61, 631.	0.3	35
110	Multielectron storage and hydrogen generation with colloidal semiconductors. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 3129-3132.	3.3	34
111	Exciton and Carrier Dynamics in Two-Dimensional Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 7692-7701.	2.1	33
112	Direct Synthesis of Selenium Nanowire Mesh on a Solid Substrate and Insights into Ultrafast Photocarrier Dynamics. Journal of Physical Chemistry C, 2018, 122, 25134-25141.	1.5	32
113	Ultrafast photoinduced electron transfer in coumarin 343 sensitized TiO2-colloidal solution. International Journal of Photoenergy, 1999, 1, 153-155.	1.4	31
114	Dynamics of Interfacial Charge Transfer States and Carriers Separation in Dye-Sensitized Solar Cells: A Time-Resolved Terahertz Spectroscopy Study. Journal of Physical Chemistry C, 2015, 119, 26266-26274.	1.5	31
115	Light induced redox reactions involving mammalian ferritin as photocatalyst. Journal of Photochemistry and Photobiology B: Biology, 1997, 41, 83-89.	1.7	30
116	Blue Photosensitizer with Copper(II/I) Redox Mediator for Efficient and Stable Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2020, 30, 2004804.	7.8	30
117	Time-independent, high electron mobility in thin PC 61 BM films: Relevance to organic photovoltaics. Organic Electronics, 2014, 15, 3729-3734.	1.4	29
118	Semiclassical Approach to Photophysics Beyond Kashaâ€™s Rule and Vibronic Spectroscopy Beyond the Condon Approximation. The Case of Azulene. Journal of Chemical Theory and Computation, 2020, 16, 2617-2626.	2.3	29
119	Intensity Dependent Femtosecond Dynamics in a PBDTTPD-Based Solar Cell Material. Journal of Physical Chemistry Letters, 2012, 3, 2952-2958.	2.1	28
120	Methylammonium Triiodide for Defect Engineering of High-Efficiency Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 3650-3660.	8.8	28
121	Quantitative Diffuse Reflectance and Diffuse Transmittance Infrared Spectroscopy of Surface-Derivatized Silica Powders. Analytical Chemistry, 1994, 66, 2260-2266.	3.2	27
122	Factors controlling the efficiencies of photoinduced electron-transfer reactions. Research on Chemical Intermediates, 1995, 21, 793-806.	1.3	26
123	Kinetics of the Regeneration by Iodide of Dye Sensitizers Adsorbed on Mesoporous Titania. Journal of Physical Chemistry C, 2014, 118, 17108-17115.	1.5	26
124	Deuterium separation and infrared photochemistry in CF2HCl. Chemical Physics, 1983, 79, 277-288.	0.9	25
125	Later rather than sooner. Nature Materials, 2005, 4, 723-724.	13.3	25
126	Liquid State and Zombie Dye Sensitized Solar Cells with Copper Bipyridine Complexes Functionalized with Alkoxy Groups. Journal of Physical Chemistry C, 2020, 124, 7071-7081.	1.5	24

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127	Photoinduced hole-transfer in semiconducting polymer/low-bandgap cyanine dye blends: evidence for unit charge separation quantum yield. Physical Chemistry Chemical Physics, 2009, 11, 8886.	1.3	23
128	Temperature-Dependent Ordering Phenomena of a Polyiodide System in a Redox-Active Ionic Liquid. Journal of Physical Chemistry C, 2012, 116, 7989-7992.	1.5	23
129	Direct Observation of Shallow Trap States in Thermal Equilibrium with Bandâ€Edge Excitons in Strongly Confined CsPbBr₃ Perovskite Nanoplatelets. Advanced Optical Materials, 2021, 9, 2001308.	3.6	23
130	The Role of Alkyl Chain Length and Halide Counter Ion in Layered Dionâˆ'Jacobson Perovskites with Aromatic Spacers. Journal of Physical Chemistry Letters, 2021, 12, 10325-10332.	2.1	23
131	Reduction of acceptor relay species by conduction band electrons of colloidal titanium dioxide; light-induced charge separation in the picosecond time domain. Chemical Physics Letters, 1987, 136, 47-51.	1.2	22
132	Organisation and Reactivity of Nanoparticles at Molecular Interfaces. Part II. Dye Sensitisation of TiO2 Nanoparticles Assembled at the Water | 1,2-Dichloroethane Interface. ChemPhysChem, 2003, 4, 85-89.	1.0	22
133	Dynamics of Photocarrier Separation in MAPbI₃ Perovskite Multigrain Films under a Quasistatic Electric Field. Journal of Physical Chemistry C, 2016, 120, 19595-19602.	1.5	22
134	Ultrafast charge separation dynamics in opaque, operational dye-sensitized solar cells revealed by femtosecond diffuse reflectance spectroscopy. Scientific Reports, 2016, 6, 24465.	1.6	22
135	Precise Control of Intramolecular Chargeâ€Transport: The Interplay of Distance and Conformational Effects. Chemistry - A European Journal, 2013, 19, 7575-7586.	1.7	21
136	Longâ€Range Ï€â€Conjugation in Phenothiazineâ€containing Donorâ€"Acceptor Dyes for Application in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2015, 8, 3859-3868.	3.6	21
137	Effect of Posttreatment of Titania Mesoscopic Films by TiCl₄ in Solid-State Dye-Sensitized Solar Cells: A Time-Resolved Spectroscopy Study. Journal of Physical Chemistry C, 2012, 116, 26721-26727.	1.5	20
138	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentaceneâ€"Trityl Radical. Journal of Physical Chemistry A, 2020, 124, 6068-6075.	1.1	19
139	Origin of the Kinetic Heterogeneity of Ultrafast Light-Induced Electron Transfer from Ru(II)-Complex Dyes to Nanocrystalline Semiconducting Particles. Chimia, 2005, 59, 123-125.	0.3	17
140	Conduction Through Viscoelastic Phase in a Redoxâ€Active Ionic Liquid at Reduced Temperatures. Advanced Materials, 2012, 24, 781-784.	11.1	17
141	Investigation of Interfacial Charge Separation at PbS QDs/(001) TiO₂Nanosheets Heterojunction Solar Cell. Particle and Particle Systems Characterization, 2015, 32, 483-488.	1.2	17
142	Phenanthreneâ€Fusedâ€Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copperâ€Electrolyteâ€Based Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2020, 132, 9410-9415.	1.6	17
143	Unraveling the Dual Character of Sulfur Atoms on Sensitizers in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 26827-26833.	4.0	16
144	Naphthalenediimide/Formamidinium-Based Low-Dimensional Perovskites. Chemistry of Materials, 2021, 33, 6412-6420.	3.2	16

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145	Dynamics of Interfacial Electron Transfer from Betanin to Nanocrystalline TiO₂: The Pursuit of Two-Electron Injection. Journal of Physical Chemistry C, 2015, 119, 19030-19041.	1.5	15
146	Synthesis and optoelectronic properties of chemically modified bi-fluorenylidenes. Journal of Materials Chemistry C, 2016, 4, 3798-3808.	2.7	15
147	Dynamics and Mechanisms of Interfacial Photoinduced Electron Transfer Processes of Third Generation Photovoltaics and Photocatalysis. Chimia, 2011, 65, 704.	0.3	14
148	Sensitization of fullerenes by covalent attachment of a diketopyrrolopyrrole chromophore. Journal of Materials Chemistry, 2012, 22, 13286.	6.7	14
149	Beyond Vibrationally Mediated Electron Transfer: Coherent Phenomena Induced by Ultrafast Charge Separation. Journal of Physical Chemistry C, 2016, 120, 8534-8539.	1.5	14
150	Harvesting UV photons for solar energy conversion applications. Physical Chemistry Chemical Physics, 2014, 16, 2090-2099.	1.3	13
151	Charge separation and carrier dynamics in donor-acceptor heterojunction photovoltaic systems. Structural Dynamics, 2017, 4, 061503.	0.9	13
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