Juan A Anta

List of Publications by Year
in descending order

142 papers	5,571 citations	57631 44 h-index	95083 68 g-index
144 all docs	144 docs citations	144 times ranked	6850 citing authors

#	Article	IF	Citations
1	ZnO-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 11413-11425.	1.5	520
2	Electron Transport and Recombination in ZnO-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 22622-22632.	1.5	175
3	Elucidating Transport-Recombination Mechanisms in Perovskite Solar Cells by Small-Perturbation Techniques. Journal of Physical Chemistry C, 2014, 118, 22913-22922.	1.5	175
4	Spectral Response of Opal-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2008, 112, 13-17.	1.5	137
5	Enhancing Moisture and Water Resistance in Perovskite Solar Cells by Encapsulation with Ultrathin Plasma Polymers. ACS Applied Materials & Interfaces, 2018, 10, 11587-11594.	4.0	125
6	Photochromic dye-sensitized solar cells with light-driven adjustable optical transmission and power conversion efficiency. Nature Energy, 2020, 5, 468-477.	19.8	120
7	Impedance analysis of perovskite solar cells: a case study. Journal of Materials Chemistry A, 2019, 7, 12191-12200.	5.2	109
8	A Numerical Model for Charge Transport and Recombination in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2006, 110, 5372-5378.	1.2	102
9	High Capacity Naâ€"O₂ Batteries: Key Parameters for Solution-Mediated Discharge. Journal of Physical Chemistry C, 2016, 120, 20068-20076.	1.5	96
10	Impact of moisture on efficiency-determining electronic processes in perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 10917-10927.	5.2	95
11	Models of electron trapping and transport in polyethylene: Currentâ€"voltage characteristics. Journal of Applied Physics, 2002, 92, 1002-1008.	1.1	92
12	2-Methoxyethanol as a new solvent for processing methylammonium lead halide perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 2346-2354.	5.2	92
13	Specific cation interactions as the cause of slow dynamics and hysteresis in dye and perovskite solar cells: a small-perturbation study. Physical Chemistry Chemical Physics, 2016, 18, 31033-31042.	1.3	89
14	Electrons in the Band Gap: Spectroscopic Characterization of Anatase TiO₂ Nanocrystal Electrodes under Fermi Level Control. Journal of Physical Chemistry C, 2012, 116, 11444-11455.	1.5	84
15	Effect of Room-Temperature Ionic Liquids on CO₂ Separation by a Cu-BTC Metalâ€"Organic Framework. Journal of Physical Chemistry C, 2013, 117, 20762-20768.	1.5	84
16	Towards a Universal Approach for the Analysis of Impedance Spectra of Perovskite Solar Cells: Equivalent Circuits and Empirical Analysis. ChemElectroChem, 2017, 4, 2891-2901.	1.7	84
17	An Equivalent Circuit for Perovskite Solar Cell Bridging Sensitized to Thin Film Architectures. Joule, 2019, 3, 2535-2549.	11.7	83
18	Charge transport model for disordered materials:â€ƒApplication to sensitizedTiO2. Physical Review B, 2002, 65, .	1.1	81

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19	Photoconducting Bragg Mirrors based on TiO₂ Nanoparticle Multilayers. Advanced Functional Materials, 2008, 18, 2708-2715.	7.8	81
20	Looking at the â€œWater-in-Deep-Eutectic-Solventâ€•System: A Dilution Range for High Performance Eutectics. ACS Sustainable Chemistry and Engineering, 2019, 7, 17565-17573.	3.2	80
21	Photovoltaic performance of nanostructured zinc oxide sensitised with xanthene dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 364-370.	2.0	75
22	Dynamics of Charge Separation and Trap-Limited Electron Transport in TiO₂ Nanostructures. Journal of Physical Chemistry C, 2007, 111, 13997-14000.	1.5	70
23	A simple numerical model for the charge transport and recombination properties of dye-sensitized solar cells: A comparison of transport-limited and transfer-limited recombination. Solar Energy Materials and Solar Cells, 2010, 94, 45-50.	3.0	67
24	ZnO solar cells with an indoline sensitizer: a comparison between nanoparticulate films and electrodeposited nanowire arrays. Energy and Environmental Science, 2011, 4, 3400.	15.6	67
25	Determination of the Electron Diffusion Length in Dye-Sensitized Solar Cells by Random Walk Simulation: Compensation Effects and Voltage Dependence. Journal of Physical Chemistry C, 2010, 114, 8552-8558.	1.5	66
26	Experimental Demonstration of the Mechanism of Light Harvesting Enhancement in Photonic-Crystal-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 1150-1154.	1.5	65
27	Origin and Whereabouts of Recombination in Perovskite Solar Cells. Journal of Physical Chemistry C, 2017, 121, 9705-9713.	1.5	65
28	Influence of three-body forces on the gas-liquid coexistence of simple fluids: The phase equilibrium of argon. Physical Review E, 1997, 55, 2707-2712.	0.8	64
29	Challenges of modeling nanostructured materials for photocatalytic water splitting. Chemical Society Reviews, 2022, 51, 3794-3818.	18.7	64
30	Effects of Frequency Dependence of the External Quantum Efficiency of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 3099-3104.	2.1	59
31	Electron transport in nanostructured metal-oxide semiconductors. Current Opinion in Colloid and Interface Science, 2012, 17, 124-131.	3.4	56
32	Interface Play between Perovskite and Hole Selective Layer on the Performance and Stability of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 34414-34421.	4.0	56
33	Random walk numerical simulation for hopping transport at finite carrier concentrations: diffusion coefficient and transport energy concept. Physical Chemistry Chemical Physics, 2009, 11, 10359.	1.3	55
34	The interaction between hybrid organicâ€“inorganic halide perovskite and selective contacts in perovskite solar cells: an infrared spectroscopy study. Physical Chemistry Chemical Physics, 2016, 18, 13583-13590.	1.3	55
35	The Impact of the Electrical Nature of the Metal Oxide on the Performance in Dye-Sensitized Solar Cells: New Look at Old Paradigms. Journal of Physical Chemistry C, 2015, 119, 3931-3944.	1.5	53
36	Interpretation of diffusion coefficients in nanostructured materials from random walk numerical simulation. Physical Chemistry Chemical Physics, 2008, 10, 4478.	1.3	52

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37	Determination of Interfacial Chargeâ€Transfer Rate Constants in Perovskite Solar Cells. ChemSusChem, 2016, 9, 1647-1659.	3.6	52
38	A continuity equation for the simulation of the currentâ€"voltage curve and the time-dependent properties of dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 10285.	1.3	50
39	Solvent-free ZnO dye-sensitised solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 1846-1852.	3.0	49
40	Numerical Simulation of the Currentâ^'Voltage Curve in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 19722-19731.	1.5	49
41	Universal Features of Electron Dynamics in Solar Cells with TiO₂ Contact: From Dye Solar Cells to Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 3923-3930.	2.1	49
42	How Important is Working with an Ordered Electrode to Improve the Charge Collection Efficiency in Nanostructured Solar Cells?. Journal of Physical Chemistry Letters, 2012, 3, 386-393.	2.1	48
43	Random walk numerical simulation for solar cell applications. Energy and Environmental Science, 2009, 2, 387.	15.6	47
44	Modification of Mesoporous TiO₂ Films by Electrochemical Doping: Impact on Photoelectrocatalytic and Photovoltaic Performance. Journal of Physical Chemistry C, 2013, 117, 1561-1570.	1.5	46
45	Effects of Ion Distributions on Charge Collection in Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1450-1453.	8.8	45
46	Combined Effect of Energetic and Spatial Disorder on the Trap-Limited Electron Diffusion Coefficient of Metal-Oxide Nanostructures. Journal of Physical Chemistry C, 2008, 112, 10287-10293.	1.5	44
47	Homeopathic Perovskite Solar Cells: Effect of Humidity during Fabrication on the Performance and Stability of the Device. Journal of Physical Chemistry C, 2018, 122, 5341-5348.	1.5	43
48	Identification of recombination losses and charge collection efficiency in a perovskite solar cell by comparing impedance response to a drift-diffusion model. Nanoscale, 2020, 12, 17385-17398.	2.8	43
49	Comparison of TiO₂ and ZnO Solar Cells Sensitized with an Indoline Dye: Time-Resolved Laser Spectroscopy Studies of Partial Charge Separation Processes. Langmuir, 2014, 30, 2505-2512.	1.6	42
50	Micelle Formation in Aqueous Solutions of Room Temperature Ionic Liquids: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2017, 121, 8348-8358.	1.2	39
51	ZnO-based dye solar cell with pure ionic-liquid electrolyte and organic sensitizer: the relevance of the dyeâ€"oxide interaction in an ionic-liquid medium. Physical Chemistry Chemical Physics, 2011, 13, 207-213.	1.3	38
52	Role of Ionic Liquid [EMIM]⁺[SCN]^{â^'} in the Adsorption and Diffusion of Gases in Metalâ€"Organic Frameworks. ACS Applied Materials & Interfaces, 2018, 10, 29694-29704.	4.0	38
53	Ion-electron correlations in liquid metals from orbital-freeab initiomolecular dynamics. Physical Review B, 1998, 58, 6124-6132.	1.1	37
54	Interpretation of Diffusion and Recombination in Nanostructured and Energy-Disordered Materials by Stochastic Quasiequilibrium Simulation. Journal of Physical Chemistry C, 2013, 117, 16275-16289.	1.5	37

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55	Effective electrostatic interactions arising in core-shell charged microgel suspensions with added salt. Journal of Chemical Physics, 2013, 138, 134902.	1.2	36
56	Structure and dynamics of liquid lithium: comparison ofab initiomolecular dynamics predictions with scattering experiments. Journal of Physics Condensed Matter, 1999, 11, 6099-6111.	0.7	34
57	Probing ion-ion and electron-ion correlations in liquid metals within the quantum hypernetted chain approximation. Physical Review B, 2000, 61, 11400-11410.	1.1	34
58	Direct Estimation of the Electron Diffusion Length in Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2011, 2, 1045-1050.	2.1	34
59	Origin of Nonlinear Recombination in Dye-Sensitized Solar Cells: Interplay between Charge Transport and Charge Transfer. Journal of Physical Chemistry C, 2012, 116, 22687-22697.	1.5	34
60	Understanding equivalent circuits in perovskite solar cells. Insights from drift-diffusion simulation. Physical Chemistry Chemical Physics, 2022, 24, 15657-15671.	1.3	34
61	ZnO/ZnO Coreâ€“Shell Nanowire Array Electrodes: Blocking of Recombination and Impressive Enhancement of Photovoltage in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 13365-13373.	1.5	32
62	Molecular dynamics simulations of organohalide perovskite precursors: solvent effects in the formation of perovskite solar cells. Physical Chemistry Chemical Physics, 2015, 17, 22770-22777.	1.3	32
63	Self-consistent effective interactions in charged colloidal suspensions. Journal of Chemical Physics, 2002, 116, 10514-10522.	1.2	31
64	Transient states and the role of excited state self-quenching of indoline dyes in complete dye-sensitized solar cells. Dyes and Pigments, 2015, 113, 692-701.	2.0	30
65	Electrochemical Reduction of Oxygen in Aprotic Ionic Liquids Containing Metal Cations: A Case Study on the Naâ€“O₂ system. ChemSusChem, 2017, 10, 1616-1623.	3.6	30
66	The Role of Surface Recombination on the Performance of Perovskite Solar Cells: Effect of Morphology and Crystalline Phase of TiO₂ Contact. Advanced Materials Interfaces, 2018, 5, 1801076.	1.9	30
67	Enhanced Stability of Perovskite Solar Cells Incorporating Dopantâ€Free Crystalline Spiroâ€OMeTAD Layers by Vacuum Sublimation. Advanced Energy Materials, 2020, 10, 1901524.	10.2	30
68	The Redox Pair Chemical Environment Influence on the Recombination Loss in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 3878-3889.	1.5	29
69	Quantum and Classical Molecular Dynamics of Ionic Liquid Electrolytes for Na/Liâ€based Batteries: Molecular Origins of the Conductivity Behavior. ChemPhysChem, 2016, 17, 2473-2481.	1.0	29
70	ZnOâ€“ionic liquid hybrid films: electrochemical synthesis and application in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 10173.	5.2	27
71	Efficient modelling of ion structure and dynamics in inorganic metal halide perovskites. Journal of Materials Chemistry A, 2020, 8, 11824-11836.	5.2	26
72	Bridge functions for models of liquid metals. Journal of Chemical Physics, 1992, 97, 4349-4355.	1.2	25

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73	Internal quantum efficiency and time signals from intensity-modulated photocurrent spectra of perovskite solar cells. Journal of Applied Physics, 2020, 128, .	1.1	25
74	On the use of semiphenomenological closures in integral equations for classical fluids. Journal of Chemical Physics, 1992, 96, 6132-6137.	1.2	24
75	Nanoparticle TiO₂ Films Prepared by Pulsed Laser Deposition: Laser Desorption and Cationization of Model Adsorbates. Journal of Physical Chemistry C, 2010, 114, 17409-17415.	1.5	24
76	Molecular Dynamics Analysis of Charge Transport in Ionicâ€Liquid Electrolytes Containing Added Salt with Mono, Di, and Trivalent Metal Cations. ChemPhysChem, 2018, 19, 1665-1673.	1.0	23
77	Charge collection properties of dye-sensitized solar cells based on 1-dimensional TiO2 porous nanostructures and ionic-liquid electrolytes. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 241, 58-66.	2.0	22
78	Mechanisms of Electron Transport and Recombination in ZnO Nanostructures for Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2014, 15, 1088-1097.	1.0	22
79	Highly efficient flexible cathodes for dye sensitized solar cells to complement Pt@TCO coatings. Journal of Materials Chemistry A, 2014, 2, 3175.	5.2	22
80	IRâ€"Spectrophotoelectrochemical Characterization of Mesoporous Semiconductor Films. Analytical Chemistry, 2012, 84, 3053-3057.	3.2	19
81	Understanding the Influence of Interface Morphology on the Performance of Perovskite Solar Cells. Materials, 2018, 11, 1073.	1.3	19
82	Integral Equation Prediction of Reversible Coagulation in Charged Colloidal Suspensions. Langmuir, 2003, 19, 475-482.	1.6	18
83	The cluster model: A hierarchically-ordered assemblage of random-packing spheres for modelling microstructure of porous materials. Journal of Non-Crystalline Solids, 2008, 354, 193-198.	1.5	17
84	Spectroscopic properties of electrochemically populated electronic states in nanostructured TiO2 films: anatase versus rutile. Physical Chemistry Chemical Physics, 2013, 15, 13790.	1.3	17
85	Potential of CO2 capture from flue gases by physicochemical and biological methods: A comparative study. Chemical Engineering Journal, 2021, 417, 128020.	6.6	17
86	N-Aryl stilbazolium dyes as sensitizers for solar cells. Dyes and Pigments, 2012, 92, 766-777.	2.0	16
87	Plasma assisted deposition of single and multistacked TiO₂ hierarchical nanotube photoanodes. Nanoscale, 2017, 9, 8133-8141.	2.8	16
88	Influence of dye chemistry and electrolyte solution on interfacial processes at nanostructured ZnO in dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 264, 26-33.	2.0	15
89	Illumination Intensity Dependence of the Recombination Mechanism in Mixed Perovskite Solar Cells. ChemPlusChem, 2021, 86, 1347-1356.	1.3	15
90	Ion Transport in Electrolytes for Dye-Sensitized Solar Cells: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2014, 118, 28448-28455.	1.5	14

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91	Vacuum template synthesis of multifunctional nanotubes with tailored nanostructured walls. Scientific Reports, 2016, 6, 20637.	1.6	14
92	Continuous time random walk simulation of short-range electron transport in TiO2 layers compared with transient surface photovoltage measurements. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 182, 280-287.	2.0	13
93	Synthesis and Raman spectroscopy study of TiO₂ nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1970-1973.	0.8	13
94	Brookite-Based Dye-Sensitized Solar Cells: Influence of Morphology and Surface Chemistry on Cell Performance. Journal of Physical Chemistry C, 2018, 122, 14277-14288.	1.5	13
95	Integral equation study of liquid hydrogen fluoride. Journal of Chemical Physics, 2001, 114, 355.	1.2	12
96	Structure of liquids composed of shifted dipole linear molecules. Physical Review E, 2003, 68, 021201.	0.8	12
97	Control of the recombination rate by changing the polarity of the electrolyte in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 21513-21523.	1.3	12
98	Charge-Transfer Reductive in Situ Doping of Mesoporous TiO₂ Photoelectrodes: Impact of Electrolyte Composition and Film Morphology. Journal of Physical Chemistry C, 2016, 120, 27882-27894.	1.5	12
99	Particle Consolidation and Electron Transport in Anatase TiO₂ Nanocrystal Films. ACS Applied Materials & Interfaces, 2019, 11, 39859-39874.	4.0	12
100	Exploring the influence of three-body classical dispersion forces on phase equilibria of simple fluids: An integral-equation approach. Physical Review E, 1994, 49, 402-409.	0.8	11
101	Partially converged integral equations for charged colloidal suspensions with added salt. Journal of Physics Condensed Matter, 2005, 17, 7935-7953.	0.7	11
102	Charge separation at disordered semiconductor heterojunctions from random walk numerical simulations. Physical Chemistry Chemical Physics, 2014, 16, 4082.	1.3	11
103	Defects in Porous Networks of WO₃ Particle Aggregates. ChemElectroChem, 2016, 3, 658-667.	1.7	11
104	Dealing with Climate Parameters in the Fabrication of Perovskite Solar Cells under Ambient Conditions. ACS Sustainable Chemistry and Engineering, 2020, 8, 7132-7138.	3.2	11
105	Internal and free energy in a pair of like-charged colloids: Monte Carlo simulations. Journal of Chemical Physics, 2010, 133, 154906.	1.2	10
106	Conditions for diffusion-limited and reaction-limited recombination in nanostructured solar cells. Journal of Chemical Physics, 2014, 140, 134702.	1.2	10
107	Effect of different photoanode nanostructures on the initial charge separation and electron injection process in dye sensitized solar cells: A photophysical study with indoline dyes. Materials Chemistry and Physics, 2016, 170, 218-228.	2.0	10
108	Lowâ€Temperature Plasma Processing of Platinum Porphyrins for the Development of Metal Nanostructured Layers. Advanced Materials Interfaces, 2017, 4, 1601233.	1.9	10

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109	A fast method of solving the hypernetted-chain equation for molecular Lennard-Jones fluids. Molecular Physics, 1995, 84, 743-755.	0.8	9
110	Reference hypernetted chain theory for linear molecular fluids: A comprehensive study of the gasâ€liquid coexistence. Journal of Chemical Physics, 1996, 105, 4265-4273.	1.2	9
111	A Critical Evaluation of the Influence of the Dark Exchange Current on the Performance of Dye-Sensitized Solar Cells. Materials, 2016, 9, 33.	1.3	9
112	Combining quantum and classical density functional theory for ionâ€“electron mixtures. Journal of Non-Crystalline Solids, 2002, 312-314, 60-68.	1.5	8
113	Integral equation studies of charged colloids: non-solution boundaries and bridge functions. Journal of Physics Condensed Matter, 2003, 15, S3491-S3507.	0.7	8
114	One-reactor plasma assisted fabrication of ZnO@TiO 2 multishell nanotubes: assessing the impact of a full coverage on the photovoltaic performance. Scientific Reports, 2017, 7, 9621.	1.6	8
115	Understanding the Interfaces between Triple-Cation Perovskite and Electron or Hole Transporting Material. ACS Applied Materials & Interfaces, 2020, 12, 30399-30410.	4.0	8
116	Ultrathin Plasma Polymer Passivation of Perovskite Solar Cells for Improved Stability and Reproducibility. Advanced Energy Materials, 2022, 12, .	10.2	8
117	On the use of a non-additive reference system in a reference hypernetted chain calculation of the structure of a binary liquid. Molecular Physics, 1995, 84, 1273-1278.	0.8	7
118	Organic dyes for the sensitization of nanostructured ZnO photoanodes: effect of the anchoring functions. RSC Advances, 2015, 5, 68929-68938.	1.7	7
119	The effect of recombination under short-circuit conditions on the determination of charge transport properties in nanostructured photoelectrodes. Physical Chemistry Chemical Physics, 2016, 18, 2303-2308.	1.3	7
120	Electrochemically Assisted Growth of CsPbBr 3 â€Based Solar Cells Without Selective Contacts. ChemElectroChem, 2020, 7, 3961-3968.	1.7	7
121	Integral equations and molecular dynamics in liquid metals; a complementary approach applied to molten Li. Journal of Physics Condensed Matter, 1993, 5, 379-386.	0.7	6
122	Gasâ^'Liquid Coexistence Properties from Reference Hypernetted Chain Theory for Linear Polar Solvents. Journal of Physical Chemistry B, 1997, 101, 1451-1459.	1.2	6
123	Ruthenium(II) dichloro or dithiocyanato complexes with 4,4â€²:2â€²,2â€³:4â€³,4â€´-quaterpyridinium ligands: Towards photosensitisers with enhanced low-energy absorption properties. Polyhedron, 2013, 50, 622-635.	1.0	6
124	Correlation between the Effectiveness of the Electron-Selective Contact and Photovoltaic Performance of Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 877-882.	2.1	6
125	Characterization of Photochromic Dye Solar Cells Using Small-Signal Perturbation Techniques. ACS Applied Energy Materials, 2021, 4, 8941-8952.	2.5	6
126	Highly Anisotropic Organometal Halide Perovskite Nanowalls Grown by Glancingâ€Angle Deposition. Advanced Materials, 2022, 34, e2107739.	11.1	5

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127	Photochromic Naphthopyran Dyes Incorporating a Benzene, Thiophene, or Furan Spacer: Effect on Photochromic, Optoelectronic, and Photovoltaic Properties in Dyeâ€Sensitized Solar Cells. Solar Rrl, 0, , 2100929.	3.1	5
128	Transferable Classical Force Field for Pure and Mixed Metal Halide Perovskites Parameterized from First-Principles. Journal of Chemical Information and Modeling, 2022, 62, 6423-6435.	2.5	5
129	Integral equation approaches to mixtures of atomic and molecular fluids. Journal of Chemical Physics, 1997, 106, 2712-2717.	1.2	4
130	Secondary Minimum Coagulation in Charged Colloidal Suspensions from Statistical Mechanics Methods. Journal of Physical Chemistry B, 2007, 111, 1110-1118.	1.2	4
131	Influence of the charge generation profile on the collection efficiency of nanostructured solar cells: a random walk numerical simulation study. Molecular Simulation, 2012, 38, 1242-1250.	0.9	4
132	Surface Properties of Anatase TiO₂ Nanowire Films Grown from a Fluorideâ€Containing Solution. ChemPhysChem, 2013, 14, 1676-1685.	1.0	4
133	The Structure of Warm Dense Matter Modeled with an Average Atom Model with Ion-Ion Correlations. Lecture Notes in Computational Science and Engineering, 2014, , 151-176.	0.1	4
134	Impact of the implementation of a mesoscopic TiO2 film from a low-temperature method on the performance and degradation of hybrid perovskite solar cells. Solar Energy, 2020, 201, 836-845.	2.9	4
135	A theoretical approach to the tight-binding band structure of liquid carbon and silicon beyond linear approximations. Journal of Chemical Physics, 1997, 106, 10238-10247.	1.2	3
136	In search of a thermodynamically self-consistent integral equation for linear molecular fluids. Molecular Physics, 1995, 85, 1239-1245.	0.8	2
137	Solvent-Free ZnO Dye-Sensitised Solar Cells. ECS Transactions, 2009, 25, 111-122.	0.3	1
138	Influence of Electron Solvation at the Surface of Nanostructured Semiconductors on the Electronic Density of States. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1581-1586.	1.9	1
139	Improving photoresponse characterization of dye-sensitized solar cells: application to the laser beam-induced current technique. Measurement Science and Technology, 2010, 21, 075702.	1.4	1
140	The vapourâ€“liquid transition of charge-stabilized colloidal suspensions: an effective one-component description. Journal of Physics Condensed Matter, 2003, 15, S3537-S3547.	0.7	0
141	Application of correction algorithms for obtaining high-resolution LBIC maps of dye-sensitized solar cells. , 2006, 6197, 178.		0
142	Correction: The effect of recombination under short-circuit conditions on the determination of charge transport properties in nanostructured photoelectrodes. Physical Chemistry Chemical Physics, 2016, 18, 14139-14139.	1.3	0