

John M Bell

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.

65
papers

1,889
citations

26
h-index

42
g-index

74
ext. papers

2,271
ext. citations

7
avg, IF

5.09
L-index

#	Paper	IF	Citations
65	All-solid-state proton-based tandem structures for fast-switching electrochromic devices. <i>Nature Electronics</i> , 2022 , 5, 45-52	28.4	12
64	Towards the environmentally friendly solution processing of metal halide perovskite technology. <i>Green Chemistry</i> , 2021 , 23, 5302-5336	10	10
63	Bioinspired 2D Nanomaterials: Bioinspired 2D Nanomaterials for Sustainable Applications (Adv. Mater. 18/2020). <i>Advanced Materials</i> , 2020 , 32, 2070144	24	2
62	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1609-1618	4	9
61	A facile, environmentally friendly synthesis of strong photo-emissive methylammonium lead bromide perovskite nanocrystals enabled by ionic liquids. <i>Green Chemistry</i> , 2020 , 22, 3433-3440	10	9
60	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 2000489	15.6	20
59	Effect of Fe-doping on bending elastic properties of single-crystalline rutile TiO ₂ nanowires. <i>Nanoscale Advances</i> , 2020 , 2, 2800-2807	5.1	1
58	Tuning the Charge Carrier Polarity of Organic Transistors by Varying the Electron Affinity of the Flanked Units in Diketopyrrolopyrrole-Based Copolymers. <i>Advanced Functional Materials</i> , 2020 , 30, 1907452	15.6	27
57	Building energy optimization using surrogate model and active sampling. <i>Journal of Building Performance Simulation</i> , 2020 , 13, 760-776	2.8	9
56	Thermal Transport in 3D Nanostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 1903841	15.6	54
55	Bioinspired 2D Nanomaterials for Sustainable Applications. <i>Advanced Materials</i> , 2020 , 32, e1902806	24	49
54	Low Hysteresis Perovskite Solar Cells Using an Electron-Beam Evaporated WO ₃ Thin Film as the Electron Transport Layer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5456-5464	6.1	32
53	Atomic-scale investigation on the ultra-large bending behaviours of layered sodium titanate nanowires. <i>Nanoscale</i> , 2019 , 11, 11847-11855	7.7	5
52	Naphthalimide end-capped diphenylacetylene: a versatile organic semiconductor for blue light emitting diodes and a donor or an acceptor for solar cells. <i>New Journal of Chemistry</i> , 2019 , 43, 9243-9254	2.6	8
51	Semi-empirical estimation of the attenuation loss for amorphous ZBLAN glass. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	1
50	Atomic-Scale Study on the Ultralarge Bending Behaviors of TiO-B/Anatase Dual-Phase Nanowires. <i>Nano Letters</i> , 2019 , 19, 7742-7749	11.5	9
49	Oriented Graphenes from Plasma-Reformed Coconut Oil for Supercapacitor Electrodes. <i>Nanomaterials</i> , 2019 , 9,	5.4	3

48	Suppression of crystallization in ZBLAN glass by rapid heating and cooling processing. <i>International Journal of Applied Glass Science</i> , 2019 , 10, 391-400	1.8	1
47	Naphthalimide end capped anthraquinone based solution-processable n-channel organic semiconductors: effect of alkyl chain engineering on charge transport. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3774-3786	7.1	24
46	Diketopyrrolopyrrole based organic semiconductors with different numbers of thiophene units: symmetry tuning effect on electronic devices. <i>New Journal of Chemistry</i> , 2018 , 42, 4017-4028	3.6	18
45	Octadecylamine-Functionalized Single-Walled Carbon Nanotubes for Facilitating the Formation of a Monolithic Perovskite Layer and Stable Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1705545	15.6	53
44	Phthalimide and naphthalimide: Effect of end-capping groups on molecular properties and photovoltaic performance of 9-fluorenone based acceptors for organic solar cells. <i>Organic Electronics</i> , 2018 , 62, 12-20	3.5	5
43	Tuning the Amount of Oxygen Vacancies in Sputter-Deposited SnO films for Enhancing the Performance of Perovskite Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 3096-3103	8.3	30
42	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. <i>New Journal of Chemistry</i> , 2018 , 42, 12374-12385	3.6	20
41	Atypical Defect Motions in Brittle Layered Sodium Titanate Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6052-6059	6.4	4
40	Tuning the Amount of Oxygen Vacancies in Sputter-Deposited SnOx films for Enhancing the Performance of Perovskite Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 3022-3022	8.3	
39	Strain Mediated Bandgap Reduction, Light Spectrum Broadening, and Carrier Mobility Enhancement of Methylammonium Lead/Tin Iodide Perovskites. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600288	3.1	12
38	9-Fluorenone and 9,10-anthraquinone potential fused aromatic building blocks to synthesize electron acceptors for organic solar cells. <i>New Journal of Chemistry</i> , 2017 , 41, 2899-2909	3.6	17
37	Enhanced perovskite electronic properties via a modified lead(II) chloride Lewis acidBase adduct and their effect in high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5195-5203	12.3	103
36	2-Methylimidazole-Derived Ni-Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15510-15524	9.5	256
35	Molecular Engineering Strategy for High Efficiency Fullerene-Free Organic Solar Cells Using Conjugated 1,8-Naphthalimide and Fluorenone Building Blocks. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16967-16976	9.5	38
34	First-Principles Prediction of Spin-Polarized Multiple Dirac Rings in Manganese Fluoride. <i>Physical Review Letters</i> , 2017 , 119, 016403	7.4	64
33	Two-Dimensional Boron Hydride Sheets: High Stability, Massless Dirac Fermions, and Excellent Mechanical Properties. <i>Angewandte Chemie</i> , 2016 , 128, 10448-10451	3.6	77
32	Two-Dimensional Boron Hydride Sheets: High Stability, Massless Dirac Fermions, and Excellent Mechanical Properties. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10292-5	16.4	76
31	Atomistic investigation into the mechanical behaviour of crystalline and amorphous TiO2 nanotubes. <i>RSC Advances</i> , 2016 , 6, 28121-28129	3.7	10

30	Predicting Single-Layer Technetium Dichalcogenides (TcX ₂ = S, Se) with Promising Applications in Photovoltaics and Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5385-92	9.5	78
29	Diamond Nanowire as a New Reinforcement for Nanocomposites. <i>Advanced Functional Materials</i> , 2016 , 26, 5279-5283	15.6	49
28	High capacitive amorphous barium nickel phosphate nanofibers for electrochemical energy storage. <i>RSC Advances</i> , 2016 , 6, 45986-45992	3.7	20
27	Enhanced Electron Lifetime of CdSe/CdS Quantum Dot (QD) Sensitized Solar Cells Using ZnSe Core/Shell Structure with Efficient Regeneration of Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015 , 150123143809004	3.8	40
26	Versatile Single-Layer Sodium Phosphidostannate(II): Strain-Tunable Electronic Structure, Excellent Mechanical Flexibility, and an Ideal Gap for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2682-7	6.4	48
25	Carbon concentration dependent grain growth of Cu ₂ ZnSnS ₄ thin films. <i>RSC Advances</i> , 2015 , 5, 20178-20185	3.7	34
24	Graphene-covered perovskites: an effective strategy to enhance light absorption and resist moisture degradation. <i>RSC Advances</i> , 2015 , 5, 82346-82350	3.7	40
23	Graphene with Patterned Fluorination: Morphology Modulation and Implications. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27562-27568	3.8	10
22	Plasma-enabled sustainable elemental lifecycles: honeycomb-derived graphenes for next-generation biosensors and supercapacitors. <i>Green Chemistry</i> , 2015 , 17, 2164-2171	10	34
21	An efficient hole transport material composite based on poly(3-hexylthiophene) and bamboo-structured carbon nanotubes for high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2784-2793	13	116
20	A framework for understanding and generating integrated solutions for residential peak energy demand. <i>PLoS ONE</i> , 2015 , 10, e0121195	3.7	7
19	Systems Modelling of the Socio-Technical Aspects of Residential Electricity Use and Network Peak Demand. <i>PLoS ONE</i> , 2015 , 10, e0134086	3.7	3
18	Challenges in field monitoring of energy performance of air conditioners. <i>Energy Efficiency</i> , 2015 , 8, 1093-1104		
17	Carbon nanotube-based super nanotubes: tunable thermal conductivity in three dimensions. <i>RSC Advances</i> , 2015 , 5, 48164-48168	3.7	7
16	Surface modification of TiO ₂ by an ionic liquid electrolyte in dye-sensitized solar cells using a molecular insulator. <i>RSC Advances</i> , 2015 , 5, 33855-33862	3.7	3
15	Mechanical bending properties of sodium titanate (Na ₂ Ti ₃ O ₇) nanowires. <i>RSC Advances</i> , 2014 , 4, 56970-56976	3.7	16
14	Phase-selective hydrothermal synthesis of Cu ₂ ZnSnS ₄ nanocrystals: the effect of the sulphur precursor. <i>CrystEngComm</i> , 2014 , 16, 4306-4313	3.3	42
13	One-step synthesis of high quality kesterite Cu ₂ ZnSnS ₄ nanocrystals - a hydrothermal approach. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 438-46	3	37

12	Comparative study of photocatalytic performance of titanium oxide spheres assembled by nanorods, nanoplates and nanosheets. <i>International Journal of Smart and Nano Materials</i> , 2012 , 3, 72-80	3.6	4
11	Size-dependent photodegradation of CdS particles deposited onto TiO ₂ mesoporous films by SILAR method. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	35
10	One-step synthesis of titanium oxide with trilayer structure for dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 133113	3.4	19
9	Microscopic and Spectroscopic Investigation of Poly(3-hexylthiophene) Interaction with Carbon Nanotubes. <i>Polymers</i> , 2011 , 3, 1433-1446	4.5	30
8	Temperature and electric field dependent mobility in poly(3-hexylthiophene) diodes. <i>Journal of Applied Physics</i> , 2010 , 108, 014512	2.5	23
7	Regioregular poly(3-hexyl-thiophene) helical self-organization on carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 95, 013304	3.4	43
6	Current-voltage characteristics of poly(3-hexylthiophene) diodes at room temperature. <i>Applied Physics Letters</i> , 2009 , 94, 083302	3.4	19
5	ATOMIC FORCE MICROSCOPY MEASUREMENTS OF BOVINE SERUM ALBUMIN ADHESION FORCES ON SURFACES. <i>International Journal of Nanoscience</i> , 2008 , 07, 299-303	0.6	6
4	Effect of Inorganic Iodides on Performance of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 15125-15131	3.8	44
3	Characterization of reaction products and mechanisms in atmospheric pressure plasma deposition of carbon films from ethanol. <i>Journal of Materials Chemistry</i> , 2005 , 15, 300		12
2	Complexes of conjugated polymer and carbon nanotubes: does blending with nanotubes influence the ordering of semi-crystalline polymers?. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 901, 1		
1	Experimental observation of anomalous absorption of bulk shear acoustic waves by a thin layer of viscous fluid. <i>Applied Physics Letters</i> , 2000 , 76, 2020-2022	3.4	2