

Oliver Fenwick

List of Publications by Year in descending order

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78
papers

2,453
citations

186265

28
h-index

214800

47
g-index

80
all docs

80
docs citations

80
times ranked

4137
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Stretchable Self-Powered Sensors Based on the Thermoelectric Response of PEDOT:PSS/Polyurethane Blends. <i>Advanced Functional Materials</i> , 2018, 28, 1704285.	14.9	171
2	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. <i>Nature Materials</i> , 2016, 15, 1017-1022.	27.5	153
3	Enhanced control of self-doping in halide perovskites for improved thermoelectric performance. <i>Nature Communications</i> , 2019, 10, 5750.	12.8	129
4	Thin Film Tin Selenide (SnSe) Thermoelectric Generators Exhibiting Ultralow Thermal Conductivity. <i>Advanced Materials</i> , 2018, 30, e1801357.	21.0	126
5	Linear and Cyclic Porphyrin Hexamers as Near-Infrared Emitters in Organic Light-Emitting Diodes. <i>Nano Letters</i> , 2011, 11, 2451-2456.	9.1	107
6	Thermochemical nanopatterning of organic semiconductors. <i>Nature Nanotechnology</i> , 2009, 4, 664-668.	31.5	104
7	Large Work Function Shift of Gold Induced by a Novel Perfluorinated Azobenzene-Based Self-Assembled Monolayer. <i>Advanced Materials</i> , 2013, 25, 432-436.	21.0	93
8	Non-Conventional Processing and Post-Processing Methods for the Nanostructuring of Conjugated Materials for Organic Electronics. <i>Advanced Functional Materials</i> , 2011, 21, 1279-1295.	14.9	81
9	Nitrogen-Doped Carbon Dots/TiO ₂ Nanoparticle Composites for Photoelectrochemical Water Oxidation. <i>ACS Applied Nano Materials</i> , 2020, 3, 3371-3381.	5.0	71
10	Tuning Intrachain versus Interchain Photophysics via Control of the Threading Ratio of Conjugated Polyrrotaxanes. <i>Nano Letters</i> , 2008, 8, 4546-4551.	9.1	64
11	Modulating the charge injection in organic field-effect transistors: fluorinated oligophenyl self-assembled monolayers for high work function electrodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3007-3015.	5.5	62
12	Photoinduced work function changes by isomerization of a densely packed azobenzene-based SAM on Au: a joint experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14302.	2.8	61
13	White Electroluminescence by Supramolecular Control of Energy Transfer in Blends of Organic-Soluble Encapsulated Polyfluorenes. <i>Advanced Functional Materials</i> , 2010, 20, 272-280.	14.9	60
14	Photoelectrochemical response of carbon dots (CDs) derived from chitosan and their use in electrochemical imaging. <i>Materials Horizons</i> , 2018, 5, 423-428.	12.2	55
15	High Responsivity Circular Polarized Light Detectors based on Quasi Two-Dimensional Chiral Perovskite Films. <i>ACS Nano</i> , 2022, 16, 2682-2689.	14.6	53
16	Substitutional doping of hybrid organic-inorganic perovskite crystals for thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13594-13599.	10.3	51
17	Polymorphism, Fluorescence, and Optoelectronic Properties of a Borazine Derivative. <i>Chemistry - A European Journal</i> , 2013, 19, 7771-7779.	3.3	49
18	Thermoelectric Materials: Current Status and Future Challenges. <i>Frontiers in Electronic Materials</i> , 2021, 1, .	3.1	41

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19	Thia- and seleno-diazole containing polymers for near-infrared light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2792-2797.	5.5	40
20	High-Resolution Scanning Near-Field Optical Lithography of Conjugated Polymers. <i>Advanced Functional Materials</i> , 2010, 20, 2842-2847.	14.9	38
21	Straightforward access to diketopyrrolopyrrole (DPP) dimers. <i>Dyes and Pigments</i> , 2013, 97, 198-208.	3.7	38
22	Multifunctional materials for OFETs, LEFETs and NIR PLEDs. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5133-5141.	5.5	38
23	High charge carrier mobility in solution processed one-dimensional lead halide perovskite single crystals and their application as photodetectors. <i>Nanoscale</i> , 2020, 12, 9688-9695.	5.6	37
24	Near-Infrared Polymer Light-Emitting Diodes Based on Low-Energy Gap Oligomers Copolymerized into a High-Gap Polymer Host. <i>Macromolecular Rapid Communications</i> , 2013, 34, 990-996.	3.9	34
25	Design, synthesis, chemical stability, packing, cyclic voltammetry, ionisation potential, and charge transport of [1]benzothieno[3,2-b][1]benzothiophene derivatives. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4863-4879.	5.5	33
26	Efficient red electroluminescence from diketopyrrolopyrrole copolymerised with a polyfluorene. <i>APL Materials</i> , 2013, 1, .	5.1	32
27	Dual functions of a novel low-gap polymer for near infra-red photovoltaics and light-emitting diodes. <i>Chemical Communications</i> , 2011, 47, 8820.	4.1	31
28	Light-induced reversible modification of the work function of a new perfluorinated biphenyl azobenzene chemisorbed on Au (111). <i>Nanoscale</i> , 2014, 6, 8969-8977.	5.6	31
29	Flexible and Stretchable Self-Powered Multi-Sensors Based on the N-Type Thermoelectric Response of Polyurethane/Na _x (Ni _n) Composites. <i>Advanced Electronic Materials</i> , 2019, 5, 1900582.	5.1	28
30	Synthesis, Characterization, and Surface Initiated Polymerization of Carbazole Functionalized Isocyanides. <i>Chemistry of Materials</i> , 2010, 22, 2597-2607.	6.7	27
31	Room-temperature-processed fullerene single-crystalline nanoparticles for high-performance flexible perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1509-1518.	10.3	25
32	Photoacid cross-linkable polyfluorenes for optoelectronics applications. <i>Synthetic Metals</i> , 2008, 158, 643-653.	3.9	24
33	Unusual Thermal Boundary Resistance in Halide Perovskites: A Way To Tune Ultralow Thermal Conductivity for Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47507-47515.	8.0	24
34	Optical probing of sample heating in scanning near-field experiments with apertured probes. <i>Applied Physics Letters</i> , 2005, 86, 011102.	3.3	22
35	Silver-induced reconstruction of an adeninate-based metal-organic framework for encapsulation of luminescent adenine-stabilized silver clusters. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4259-4268.	5.5	22
36	Luminescent Neutral Cu(I) Complexes: Synthesis, Characterization and Application in Solution-Processed OLED. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, R83-R90.	1.8	22

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37	All-Oxide p-n Junction Thermoelectric Generator Based on SnO ₂ and ZnO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35187-35196.	8.0	21
38	Self-powered ultrasensitive and highly stretchable temperature-strain sensing composite yarns. <i>Materials Horizons</i> , 2021, 8, 2513-2519.	12.2	21
39	Local Surface Potential of Conjugated Nanostructures by Kelvin Probe Force Microscopy: Effect of the Sampling Depth. <i>Small</i> , 2011, 7, 634-639.	10.0	20
40	Luminescent Properties of a Water-Soluble Conjugated Polymer Incorporating Graphene Oxide Quantum Dots. <i>ChemPhysChem</i> , 2015, 16, 1258-1262.	2.1	20
41	Polymorphism in N,N-dialkyl-naphthalene diimides. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3097-3112.	5.5	18
42	Full Thermoelectric Characterization of Stoichiometric Electrodeposited Thin Film Tin Selenide (SnSe). <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28232-28238.	8.0	17
43	High thermal conductivity states and enhanced figure of merit in aligned polymer thermoelectric materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16065-16075.	10.3	17
44	Modelling topographical artifacts in scanning near-field optical microscopy. <i>Synthetic Metals</i> , 2004, 147, 171-173.	3.9	16
45	Observation of tip-to-sample heat transfer in near-field optical microscopy using metal-coated fiber probes. <i>Applied Physics Letters</i> , 2005, 86, 203109.	3.3	15
46	Controlling the Thermoelectric Properties of Organometallic Coordination Polymers via Ligand Design. <i>Advanced Functional Materials</i> , 2020, 30, 2003106.	14.9	15
47	Thermoelectric properties of CZTS thin films: effect of Cu-Zn disorder. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13148-13158.	2.8	15
48	Shape dependent thermal effects in apertured fiber probes for scanning near-field optical microscopy. <i>Journal of Applied Physics</i> , 2006, 99, 084303.	2.5	14
49	X-Ray-Induced Growth Dynamics of Luminescent Silver Clusters in Zeolites. <i>Small</i> , 2020, 16, e2002063.	10.0	14
50	Wafer-Scale Graphene Anodes Replace Indium Tin Oxide in Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2022, 10, 2101675.	7.3	11
51	Facile and Low-Cost Fabrication of Cu/Zn/Sn-Based Ternary and Quaternary Chalcogenides Thermoelectric Generators. <i>ACS Applied Energy Materials</i> , 2022, 5, 5909-5918.	5.1	11
52	Cross-linking of a poly(3,4-ethylene dioxythiophene):(polystyrene sulfonic acid) hole injection layer with a bis-azide salt and the effect of atmospheric processing conditions on device properties. <i>Applied Physics Letters</i> , 2012, 100, 053309.	3.3	10
53	Growth and Characterization of Cu ₂ Zn _{1-x} FexSnS ₄ Thin Films for Photovoltaic Applications. <i>Materials</i> , 2020, 13, 1471.	2.9	10
54	Novel scalable aerosol-assisted CVD route for perovskite solar cells. <i>Materials Advances</i> , 2021, 2, 1606-1612.	5.4	10

#	ARTICLE	IF	CITATIONS
55	High thermoelectric performance based on CsSnI ₃ thin films with improved stability. Journal of Materials Chemistry A, 2022, 10, 7020-7028.	10.3	10
56	Interfacial dipole dynamics of light-emitting diodes incorporating a poly(amidoamine) dendrimer monolayer. Applied Physics Letters, 2010, 97, 043304.	3.3	9
57	White luminescence from single-layer devices of nonresonant polymer blends. Applied Physics Letters, 2010, 96, 213301.	3.3	9
58	Molecular Doping for Hole Transporting Materials in Hybrid Perovskite Solar Cells. Metals, 2020, 10, 14.	2.3	9
59	6.14 Organic Thermoelectric Composites Materials. , 2018, , 408-430.		8
60	Unexpected softness of bilayer graphene and softening of A-A stacked graphene layers. Physical Review B, 2020, 101, .	3.2	7
61	Metal-organic biomolecule frameworks (BioMOFs): a novel approach for green optoelectronic applications. Chemical Communications, 2022, 58, 677-680.	4.1	7
62	Oxacyclic Fused [1]Benzothieno[3,2-b]benzothiophene Derivatives: Synthesis, Electronic Structure, Electrochemical Properties, Ionisation Potential, and Crystal Structure. ChemPlusChem, 2019, 84, 1263-1269.	2.8	6
63	Investigation of heating effects in near-field experiments with luminescent organic semiconductors. Synthetic Metals, 2004, 147, 165-169.	3.9	5
64	The influence of the substrate thermal conductivity on scanning thermochemical lithography. Journal of Applied Physics, 2012, 111, .	2.5	5
65	Efficient light confinement with nanostructured optical microfiber tips. Optics Communications, 2012, 285, 4688-4697.	2.1	5
66	Dye-sensitized catalyst dyads for photoelectrochemical water oxidation based on metal-free sensitizers. RSC Advances, 2021, 11, 5311-5319.	3.6	4
67	Quasi-Zero Dimensional Halide Perovskite Derivates: Synthesis, Status, and Opportunity. Frontiers in Electronics, 0, 2, .	3.2	4
68	Non-conventional charge transport in organic semiconductors: magnetoresistance and thermoelectricity. Molecular Systems Design and Engineering, 2017, 2, 47-56.	3.4	3
69	Two-Step Synthesis of Bismuth-Based Hybrid Halide Perovskite Thin-Films. Materials, 2021, 14, 7827.	2.9	3
70	Critical analysis of self-doping and water-soluble n-type organic semiconductors: structures and mechanisms. Journal of Materials Chemistry C, 0, , .	5.5	3
71	Graphene on silicon: Effects of the silicon surface orientation on the work function and carrier density of graphene. Physical Review B, 2022, 105, .	3.2	2
72	Organic Electronics: Non-conventional Processing and Post-processing Methods for the Nanostructuring of Conjugated Materials for Organic Electronics (Adv. Funct. Mater. 7/2011). Advanced Functional Materials, 2011, 21, 1206-1206.	14.9	1

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73	Mapping Sub-Surface Structure of Thin Films in Three Dimensions with an Optical Near-Field. Advanced Theory and Simulations, 2019, 2, 1900033.	2.8	1
74	Conjugated Polymers: High-Resolution Scanning Near-Field Optical Lithography of Conjugated Polymers (Adv. Funct. Mater. 17/2010). Advanced Functional Materials, 2010, 20, n/a-n/a.	14.9	0
75	Sub-wavelength focusing of high intensities in microfibre tips. , 2012, , .		0
76	Halide Perovskites as Thermoelectric Materials. , 0, , .		0
77	Significant interlayer coupling in bilayer graphene and double-walled carbon nanotubes: A refinement of obtaining strain in low-dimensional materials. Physical Review B, 2022, 105, .	3.2	0
78	Wafer-Scale Graphene Anodes Replace Indium Tin Oxide in Organic Light-Emitting Diodes (Advanced) Tj ETQq0,0,0 rgBT /Overlock 1	7.3	0