## Deirdre O'Carroll

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microcavity effects and optically pumped lasing in single conjugated polymer nanowires. Nature Nanotechnology, 2007, 2, 180-184.	15.6	379
2	Solutionâ€Processed MoS <sub>2</sub> /Organolead Trihalide Perovskite Photodetectors. Advanced Materials, 2017, 29, 1603995.	11.1	187
3	All-in-One: Achieving Robust, Strongly Luminescent and Highly Dispersible Hybrid Materials by Combining Ionic and Coordinate Bonds in Molecular Crystals. Journal of the American Chemical Society, 2017, 139, 9281-9290.	6.6	146
4	Melt-Processed Polyfluorene Nanowires as Active Waveguides. Small, 2007, 3, 1178-1183.	5.2	133
5	A Systematic Approach to Achieving High Performance Hybrid Lighting Phosphors with Excellent Thermal―and Photostability. Advanced Functional Materials, 2017, 27, 1603444.	7.8	125
6	Optical Biosensors for Virus Detection: Prospects for SARS oVâ€2/COVIDâ€19. ChemBioChem, 2021, 22, 1176-1189.	1.3	120
7	Poly(9,9â€dioctylfluorene) Nanowires with Pronounced βâ€Phase Morphology: Synthesis, Characterization, and Optical Properties. Advanced Materials, 2008, 20, 42-48.	11.1	109
8	Conjugated Polymer/Metal Nanowire Heterostructure Plasmonic Antennas. Advanced Materials, 2010, 22, 1223-1227.	11.1	72
9	Blending Ionic and Coordinate Bonds in Hybrid Semiconductor Materials: A General Approach toward Robust and Solution-Processable Covalent/Coordinate Network Structures. Journal of the American Chemical Society, 2020, 142, 4242-4253.	6.6	72
10	Ultrafast Charge Transfer and Enhanced Absorption in MoS <sub>2</sub> –Organic van der Waals Heterojunctions Using Plasmonic Metasurfaces. ACS Nano, 2016, 10, 9899-9908.	7.3	71
11	Alignment and Dynamic Manipulation of Conjugated Polymer Nanowires in Nematic Liquid Crystal Hosts. Advanced Materials, 2008, 20, 2497-2502.	11.1	54
12	Absorptionâ€Induced Transparency. Angewandte Chemie - International Edition, 2011, 50, 2085-2089.	7.2	52
13	Absorption-induced scattering and surface plasmon out-coupling from absorber-coated plasmonic metasurfaces. Nature Communications, 2015, 6, 7899.	5.8	48
14	A New Type of Hybrid Copper Iodide as Nontoxic and Ultrastable LED Emissive Layer Material. ACS Energy Letters, 2021, 6, 2565-2574.	8.8	46
15	Carbon Dots and Stability of Their Optical Properties. Particle and Particle Systems Characterization, 2021, 38, 2000271.	1.2	45
16	Conjugated polymer-based photonic nanostructures. Polymer Chemistry, 2013, 4, 5181.	1.9	44
17	Highly Anisotropic Luminescence from Poly(9,9-dioctylfluorene) Nanowires Doped with Orientationally Ordered β-Phase Polymer Chains. Chemistry of Materials, 2008, 20, 6501-6508.	3.2	43
18	Rational design of a high-efficiency, multivariate metal–organic framework phosphor for white LED bulbs. Chemical Science, 2020, 11, 1814-1824.	3.7	43

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19	Template Synthesis of Highly Oriented Polyfluorene Nanotube Arrays. Chemistry of Materials, 2008, 20, 996-1003.	3.2	42
20	Plasmonic electrodes for bulk-heterojunction organic photovoltaics: a review. Journal of Photonics for Energy, 2015, 5, 057002.	0.8	40
21	Highly efficient and very robust blue-excitable yellow phosphors built on multiple-stranded one-dimensional inorganic–organic hybrid chains. Chemical Science, 2019, 10, 5363-5372.	3.7	38
22	Hybrid plasmonic Au–TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. Nanoscale Advances, 2019, 1, 1045-1054.	2.2	37
23	Emission Colour Tuning in Semiconducting Polymer Nanotubes by Energy Transfer to Organo― Lanthanide Dopants. Advanced Materials, 2007, 19, 2474-2479.	11.1	36
24	Synthesis of Pentacene Nanotubes by Melt-Assisted Template Wetting. Chemistry of Materials, 2007, 19, 338-340.	3.2	35
25	Surface plasmon and photonic mode propagation in gold nanotubes with varying wall thickness. Physical Review B, 2011, 84, .	1.1	29
26	Computational comparison of conventional and inverted organic photovoltaic performance parameters with varying metal electrode surface workfunction. Solar Energy Materials and Solar Cells, 2014, 120, 572-583.	3.0	25
27	Luminescent Conjugated Polymer Nanowire Yâ€Junctions with Onâ€Branch Molecular Anisotropy. Advanced Materials, 2009, 21, 1160-1165.	11.1	23
28	Metal–Polymer–Metal Splitâ€Ðipole Nanoantennas. Advanced Materials, 2012, 24, OP136-42.	11.1	21
29	Mode-specific study of nanoparticle-mediated optical interactions in an absorber/metal thin film system. Nanoscale, 2015, 7, 13196-13206.	2.8	21
30	Light-management in ultra-thin polythiophene films using plasmonic monopole nanoantennas. Applied Physics Letters, 2012, 101, .	1.5	20
31	Structural, optical, and electrical properties of silver gratings prepared by nanoimprint lithography of nanoparticle ink. Applied Surface Science, 2021, 537, 147892.	3.1	19
32	The role of photonics in energy. Journal of Photonics for Energy, 2015, 5, 050997.	0.8	18
33	Long-term effects of impurities on the particle size and optical emission of carbon dots. Nanoscale Advances, 2021, 3, 182-189.	2.2	18
34	Polyfluorene nanowire active waveguides as sub-wavelength polarized light sources. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2468-2473.	1.3	16
35	Absorption and scattering effects by silver nanoparticles near the interface of organic/inorganic semiconductor tandem films. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	16
36	Photon Recycling in Semiconductor Thin Films and Devices. Advanced Science, 2021, 8, e2004076.	5.6	16

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37	Polyfluorene nanowires with pronounced axial texturing prepared by melt-assisted template wetting. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 298-302.	1.7	15
38	Nanoporous Silver Thin Films: Multifunctional Platforms for Influencing Chain Morphology and Optical Properties of Conjugated Polymers. Advanced Functional Materials, 2015, 25, 3302-3313.	7.8	14
39	Luminescent Optical Detection of Volatile Electron Deficient Compounds by Conjugated Polymer Nanofibers. Analytical Chemistry, 2015, 87, 4421-4428.	3.2	12
40	Identification of the local electrical properties of crystalline and amorphous domains in electrochemically doped conjugated polymer thin films. RSC Advances, 2020, 10, 21454-21463.	1.7	11
41	Survey of Mechanical Durability of PV Backsheets. , 2017, , .		9
42	Aperiodic Porous Metasurface-Mediated Organic Semiconductor Fluorescence. ACS Photonics, 2018, 5, 1215-1227.	3.2	8
43	Optical and Electrical Properties of Organic Semiconductor Thin Films on Aperiodic Plasmonic Metasurfaces. ACS Applied Materials & amp; Interfaces, 2020, 12, 35579-35587.	4.0	8
44	Pressure effects on interfacial surface contacts and performance of organic solar cells. Journal of Applied Physics, 2017, 122, .	1.1	7
45	Influence of partially-oxidized silver back electrodes on the electrical properties and stability of organic semiconductor diodes. Organic Electronics, 2019, 70, 179-185.	1.4	7
46	Applications of scanning electron microscopy and focused ion beam milling in dental research. European Journal of Oral Sciences, 2022, 130, e12853.	0.7	7
47	Influence of Pressure on Contacts between Layers in Organic Photovoltaic Cells. Advanced Materials Research, 0, 1132, 204-216.	0.3	6
48	Cost, energy and emissions assessment of organic polymer light-emitting device architectures. Journal of Cleaner Production, 2016, 137, 1418-1431.	4.6	6
49	Enhancing surface plasmon leakage at the metal/semiconductor interface: towards increased light outcoupling efficiency in organic optoelectronics. Optics Express, 2014, 22, 7644.	1.7	5
50	Gold Nanowire and Nanorod Plasmonic Mechanisms for Increasing Ultra-Thin Organic Photovoltaic Active Layer Absorption. Plasmonics, 2014, 9, 1283-1301.	1.8	5
51	Effects of metal film thickness and gain on the coupling of organic semiconductor exciton emission to surface plasmon polaritons. Journal of Materials Chemistry C, 2016, 4, 10111-10119.	2.7	5
52	Plasmonic sphere-on-plane systems with semiconducting polymer spacer layers. Physical Chemistry Chemical Physics, 2018, 20, 11749-11757.	1.3	5
53	Shortâ€Wavelength Lasing‧pasing and Random Spasing with Deeply Subwavelength Thinâ€Film Gain Media. Advanced Functional Materials, 2018, 28, 1802630.	7.8	5
54	Dual-Mode Polymer-Based Temperature Sensor by Dedoping of Electrochemically Doped, Conjugated Polymer Thin Films. ACS Applied Electronic Materials, 2021, 3, 4718-4725.	2.0	4

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55	Oxidation of Planar and Plasmonic Ag Surfaces by Exposure to O2/Ar Plasma for Organic Optoelectronic Applications. MRS Advances, 2016, 1, 943-948.	0.5	3
56	Investigation of the role of polyol molecular weight in the polyol synthesis of silver nanoparticles. Materials Research Express, 2019, 6, 115067.	0.8	3
57	Strong Plasmon–Exciton Coupling in Ag Nanoparticle—Conjugated Polymer Core-Shell Hybrid Nanostructures. Polymers, 2020, 12, 2141.	2.0	3
58	Polarized Luminescence from Single Polymer Nanowires and Aligned Nanowire Arrays. Materials Research Society Symposia Proceedings, 2006, 948, 1.	0.1	2
59	Metal Films: Nanoporous Silver Thin Films: Multifunctional Platforms for Influencing Chain Morphology and Optical Properties of Conjugated Polymers (Adv. Funct. Mater. 22/2015). Advanced Functional Materials, 2015, 25, 3443-3443.	7.8	2
60	Influence of organic active layer morphology on plasmonic light-trapping. , 2016, , .		2
61	Special Section Guest Editorial: Nanophotonics and Plasmonics for Solar Energy Harvesting and Conversion. Journal of Photonics for Energy, 2015, 5, 057001.	0.8	1
62	Effects of conjugated polymer incorporation on the morphology and energy harvesting of solution-processed, phthalocyanine-based thin films. Synthetic Metals, 2016, 220, 469-476.	2.1	1
63	Modification of Luminescence from Dual-Emission Molecules by Plasmonic Surfaces. Journal of Physical Chemistry C, 2020, 124, 17218-17226.	1.5	1
64	The integrity of synthetic magnesium silicate in charged compounds. Scientific Reports, 2021, 11, 23717.	1.6	1
65	Optimization of PCDTBT Metal-Insulator-Metal Hole-Only Photodiodes. , 0, , .		1
66	Waveguiding, Microcavity Effects and Optically Pumped Lasing in Single Melt Processed Polyfluorene Nanowires. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
67	Light management for conjugated polymer-based photovoltaics. , 2013, , .		0
68	Plasmonic mode interactions with organic semiconductor gain media in nano-confined geometries. Proceedings of SPIE, 2014, , .	0.8	0
69	Nanophotonic interactions between organic excitons and plasmonic metasurfaces (Conference) Tj ETQq1 1 0.7	'84314 rgB	3T /Qverlock
70	Native-Metal-Oxide-Coated Plasmonic Electrode Metasurfaces for Nanophotonic Light Trapping and Efficient Charge Collection. , 2017, , .		0
71	Spasers: Short-Wavelength Lasing-Spasing and Random Spasing with Deeply Subwavelength Thin-Film Gain Media (Adv. Funct. Mater. 39/2018). Advanced Functional Materials, 2018, 28, 1870281.	7.8	0
72	Organic photonic nanostructures. , 2019, , 111-138.		0

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73	Charge Transfer and Enhanced Absorption in MoS2 - Organic Heterojunctions Using Plasmonic Metasurfaces. , 2017, , .		0