Deirdre M O'carroll

List of Publications by Year
in descending order

26	943	567281 15	610901 24
papers	citations	h-index	g-index

27	27	27	1418
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	13.7	146
2	A Systematic Approach to Achieving High Performance Hybrid Lighting Phosphors with Excellent Thermalâ€•and Photostability. Advanced Functional Materials, 2017, 27, 1603444.	14.9	125
3	Optical Biosensors for Virus Detection: Prospects for SARSâ€CoVâ€2/COVIDâ€19. ChemBioChem, 2021, 22, 1176-1189.	2.6	120
4	Conjugated Polymer/Metal Nanowire Heterostructure Plasmonic Antennas. Advanced Materials, 2010, 22, 1223-1227.	21.0	72
5	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.	13.7	72
6	Ultrafast Charge Transfer and Enhanced Absorption in MoS₂â€“Organic van der Waals Heterojunctions Using Plasmonic Metasurfaces. ACS Nano, 2016, 10, 9899-9908.	14.6	71
7	Absorptionâ€Induced Transparency. Angewandte Chemie - International Edition, 2011, 50, 2085-2089.	13.8	52
8	Absorption-induced scattering and surface plasmon out-coupling from absorber-coated plasmonic metasurfaces. Nature Communications, 2015, 6, 7899.	12.8	48
9	Carbon Dots and Stability of Their Optical Properties. Particle and Particle Systems Characterization, 2021, 38, 2000271.	2.3	45
10	Conjugated polymer-based photonic nanostructures. Polymer Chemistry, 2013, 4, 5181.	3.9	44
11	Metalâ€“Polymerâ€“Metal Splitâ€Đipole Nanoantennas. Advanced Materials, 2012, 24, OP136-42.	21.0	21
12	Mode-specific study of nanoparticle-mediated optical interactions in an absorber/metal thin film system. Nanoscale, 2015, 7, 13196-13206.	5.6	21
13	Light-management in ultra-thin polythiophene films using plasmonic monopole nanoantennas. Applied Physics Letters, 2012, 101, .	3.3	20
14	Long-term effects of impurities on the particle size and optical emission of carbon dots. Nanoscale Advances, 2021, 3, 182-189.	4.6	18
15	Photon Recycling in Semiconductor Thin Films and Devices. Advanced Science, 2021, 8, e2004076.	11.2	16
16	Nanoporous Silver Thin Films: Multifunctional Platforms for Influencing Chain Morphology and Optical Properties of Conjugated Polymers. Advanced Functional Materials, 2015, 25, 3302-3313.	14.9	14
17	Optical and Electrical Properties of Organic Semiconductor Thin Films on Aperiodic Plasmonic Metasurfaces. ACS Applied Materials & Interfaces, 2020, 12, 35579-35587.	8.0	8
18	Influence of partially-oxidized silver back electrodes on the electrical properties and stability of organic semiconductor diodes. Organic Electronics, 2019, 70, 179-185.	2.6	7

#	Article	IF	Citations
19	Enhancing surface plasmon leakage at the metal/semiconductor interface: towards increased light outcoupling efficiency in organic optoelectronics. Optics Express, 2014, 22, 7644.	3.4	5
20	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.	5.5	5
21	Plasmonic sphere-on-plane systems with semiconducting polymer spacer layers. Physical Chemistry Chemical Physics, 2018, 20, 11749-11757.	2.8	5
22	Strong Plasmonâ€“Exciton Coupling in Ag Nanoparticleâ€”Conjugated Polymer Core-Shell Hybrid Nanostructures. Polymers, 2020, 12, 2141.	4.5	3
23	The integrity of synthetic magnesium silicate in charged compounds. Scientific Reports, 2021, 11, 23717.	3.3	1
24	Light management for conjugated polymer-based photovoltaics. , 2013, , .		0
25	Nanophotonic interactions between organic excitons and plasmonic metasurfaces (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10		0
26	Native-Metal-Oxide-Coated Plasmonic Electrode Metasurfaces for Nanophotonic Light Trapping and Efficient Charge Collection. , 2017, , .		0