Alice Sciortino

List of Publications by Year
in descending order

33 papers	1,021 citations	516215 16 h-index	414034 32 g-index
34 all docs	34 docs citations	34 times ranked	1308 citing authors

#	Article	IF	Citations
1	Solvatochromism Unravels the Emission Mechanism of Carbon Nanodots. Journal of Physical Chemistry Letters, 2016, 7, 3419-3423.	2.1	179
2	Carbon Nanodots: A Reviewâ€"From the Current Understanding of the Fundamental Photophysics to the Full Control of the Optical Response. Journal of Carbon Research, 2018, 4, 67.	1.4	137
3	Characteristic Excitation Wavelength Dependence of Fluorescence Emissions in Carbon â€œQuantumâ€• Dots. Journal of Physical Chemistry C, 2017, 121, 28180-28186.	1.5	93
4	Î²-C₃N₄ Nanocrystals: Carbon Dots with Extraordinary Morphological, Structural, and Optical Homogeneity. Chemistry of Materials, 2018, 30, 1695-1700.	3.2	76
5	Highly Homogeneous Biotinylated Carbon Nanodots: Red-Emitting Nanoheaters as Theranostic Agents toward Precision Cancer Medicine. ACS Applied Materials & Interfaces, 2019, 11, 19854-19866.	4.0	61
6	Tailoring the Emission Color of Carbon Dots through Nitrogen-Induced Changes of Their Crystalline Structure. Journal of Physical Chemistry C, 2018, 122, 19897-19903.	1.5	54
7	Fluorescent nitrogen-rich carbon nanodots with an unexpected Î²-C₃N₄nanocrystalline structure. Journal of Materials Chemistry C, 2016, 4, 2598-2605.	2.7	53
8	The interaction of photoexcited carbon nanodots with metal ions disclosed down to the femtosecond scale. Nanoscale, 2017, 9, 11902-11911.	2.8	47
9	Different natures of surface electronic transitions of carbon nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 22670-22677.	1.3	37
10	One-pot synthesis of graphene quantum dots and simultaneous nanostructured self-assembly via a novel microwave-assisted method: impact on triazine removal and efficiency monitoring. RSC Advances, 2018, 8, 29939-29946.	1.7	35
11	Disentangling size effects and spectral inhomogeneity in carbon nanodots by ultrafast dynamical hole-burning. Nanoscale, 2018, 10, 15317-15323.	2.8	33
12	A Comparative Study of Top-Down and Bottom-Up Carbon Nanodots and Their Interaction with Mercury Ions. Nanomaterials, 2021, 11, 1265.	1.9	25
13	Simultaneous Photonic and Excitonic Coupling in Spherical Quantum Dot Supercrystals. ACS Nano, 2020, 14, 13806-13815.	7.3	22
14	Synthesis of multi-color luminescent ZnO nanoparticles by ultra-short pulsed laser ablation. Applied Surface Science, 2020, 506, 144954.	3.1	21
15	UV photobleaching of carbon nanodots investigated by in situ optical methods. Physical Chemistry Chemical Physics, 2020, 22, 13398-13407.	1.3	21
16	Ultrafast spectroscopic investigation on fluorescent carbon nanodots: the role of passivation. Physical Chemistry Chemical Physics, 2019, 21, 16459-16467.	1.3	19
17	Highly Efficient Electron Transfer in a Carbon Dotâ€"Polyoxometalate Nanohybrid. Journal of Physical Chemistry Letters, 2020, 11, 4379-4384.	2.1	16
18	Disclosing the emissive surface traps in green-emitting carbon nanodots. Carbon, 2021, 173, 454-461.	5.4	16

#	Article	IF	Citations
19	Decagram-Scale Synthesis of Multicolor Carbon Nanodots: Self-Tracking Nanoheaters with Inherent and Selective Anticancer Properties. ACS Applied Materials & Interfaces, 2022, 14, 2551-2563.	4.0	15
20	Photocycle of Excitons in Nitrogen-Rich Carbon Nanodots: Implications for Photocatalysis and Photovoltaics. ACS Applied Nano Materials, 2020, 3, 6925-6934.	2.4	11
21	Dynamic Modification of Fermi Energy in Single-Layer Graphene by Photoinduced Electron Transfer from Carbon Dots. Nanomaterials, 2020, 10, 528.	1.9	9
22	Pressure-Dependent Tuning of Photoluminescence and Size Distribution of Carbon Nanodots for Theranostic Anticancer Applications. Materials, 2020, 13, 4899.	1.3	8
23	Printable Thermo- and Photo-stable Poly(D,L-lactide)/Carbon Nanodots Nanocomposites via Heterophase Melt-Extrusion Transesterification. Chemical Engineering Journal, 2022, 443, 136525.	6.6	8
24	Carbon Dots Dispersed on Graphene/SiO 2 /Si: A Morphological Study. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800559.	0.8	6
25	Photoinduced charge transfer from Carbon Dots to Graphene in solid composite. Thin Solid Films, 2019, 669, 620-624.	0.8	6
26	Ultrafast Interface Charge Separation in Carbon Nanodotâ€“Nanotube Hybrids. ACS Applied Materials & Interfaces, 2021, 13, 49232-49241.	4.0	5
27	Sensing of Transition Metals by Top-Down Carbon Dots. Applied Sciences (Switzerland), 2021, 11, 10360.	1.3	3
28	Effect of Halogen Ions on the Photocycle of Fluorescent Carbon Nanodots. Journal of Carbon Research, 2019, 5, 64.	1.4	1
29	Transient absorption with a femtosecond tunable excitation pump reveals the emission kinetics of color centers in amorphous silica. Optics Letters, 2021, 46, 1736.	1.7	1
30	Fluorescent Carbon Nanodots as Sensors of Toxic Metal Ions and Pesticides. Engineering Proceedings, 2021, 6, .	0.4	1
31	Photo-Activated Phosphorescence of Ultrafine ZnS:Mn Quantum Dots: On the Lattice Strain Contribution. Journal of Physical Chemistry C, 2022, 126, 1531-1541.	1.5	1
32	Electron transfer between carbon dots and tetranuclear Dawson-derived sandwich polyanions. Physical Chemistry Chemical Physics, 2022, 24, 17654-17664.	1.3	1
33	Photoinduced charge separation in functional carbon-silver nanohybrids. Physical Chemistry Chemical Physics, 2022, , .	1.3	0