Francesca Arcudi

List of Publications by Year in Descending Order

34 papers	1,379 citations	18 h-index	37 g-index
41 ext. papers	1,868 ext. citations	11 avg, IF	5.29 L-index

#	Paper	IF	Citations
34	A multifunctional chemical toolbox to engineer carbon dots for biomedical and energy applications.. *Nature Nanotechnology*, **2022**, 17, 112-130	28.7	49
33	Quantum Dot-Sensitized Photoreduction of CO in Water with Turnover Number > 80,000. *Journal of the American Chemical Society*, **2021**, 143, 18131-18138	16.4	12
32	Lighting up the Electrochemiluminescence of Carbon Dots through Pre- and Post-Synthetic Design. *Advanced Science*, **2021**, 8, 2100125	13.6	12
31	Snapshots into carbon dots formation through a combined spectroscopic approach. *Nature Communications*, **2021**, 12, 2640	17.4	28
30	Light-Controlled Regioselective Synthesis of Fullerene Bis-Adducts. *Angewandte Chemie - International Edition*, **2021**, 60, 313-320	16.4	8
29	Light-Controlled Regioselective Synthesis of Fullerene Bis-Adducts. *Angewandte Chemie*, **2021**, 133, 317-324	3.6	2
28	Influence of the chirality of carbon nanodots on their interaction with proteins and cells. *Nature Communications*, **2021**, 12, 7208	17.4	5
27	Symmetry-Breaking Charge-Transfer Chromophore Interactions Supported by Carbon Nanodots. *Angewandte Chemie - International Edition*, **2020**, 59, 12779-12784	16.4	14
26	Synthesis and excited state processes of arrays containing amine-rich carbon dots and unsymmetrical rylene diimides. *Materials Chemistry Frontiers*, **2020**, 4, 3640-3648	7.8	9
25	Symmetry-Breaking Charge-Transfer Chromophore Interactions Supported by Carbon Nanodots. *Angewandte Chemie*, **2020**, 132, 12879-12884	3.6	3
24	Preparation, functionalization and characterization of engineered carbon nanodots. *Nature Protocols*, **2019**, 14, 2931-2953	18.8	52
23	pH-Dependent structure of water-exposed surfaces of CdSe quantum dots. *Chemical Communications*, **2019**, 55, 5435-5438	5.8	6
22	Design, Synthesis, and Functionalization Strategies of Tailored Carbon Nanodots. *Accounts of Chemical Research*, **2019**, 52, 2070-2079	24.3	96
21	Colloidally Stable CdS Quantum Dots in Water with Electrostatically Stabilized Weak-Binding, Sulfur-Free Ligands. *Chemistry - A European Journal*, **2019**, 25, 14469-14474	4.8	4
20	Customizing the Electrochemical Properties of Carbon Nanodots by Using Quinones in Bottom-Up Synthesis. *Angewandte Chemie*, **2018**, 130, 5156-5161	3.6	14
19	Customizing the Electrochemical Properties of Carbon Nanodots by Using Quinones in Bottom-Up Synthesis. *Angewandte Chemie - International Edition*, **2018**, 57, 5062-5067	16.4	42
18	Screening Supramolecular Interactions between Carbon Nanodots and Porphyrins. *Journal of the American Chemical Society*, **2018**, 140, 904-907	16.4	44

List of Publications

17	Nitrogen-Doped Carbon Nanodots-Ionogels: Preparation, Characterization, and Radical Scavenging Activity. *ACS Nano*, **2018**, 12, 1296-1305	16.7	57
16	Design principles of chiral carbon nanodots help convey chirality from molecular to nanoscale level. *Nature Communications*, **2018**, 9, 3442	17.4	104
15	Nitrogen-doped carbon nanodots for bioimaging and delivery of paclitaxel. *Journal of Materials Chemistry B*, **2018**, 6, 5540-5548	7.3	105
14	Enhancing photoluminescence of graphene quantum dots by thermal annealing of the graphite precursor. *Materials Research Bulletin*, **2017**, 93, 183-193	5.1	26
13	Top-down and bottom-up approaches to transparent, flexible and luminescent nitrogen-doped carbon nanodot-clay hybrid films. *Nanoscale*, **2017**, 9, 10256-10262	7.7	33
12	Rationally Designed Carbon Nanodots towards Pure White-Light Emission. *Angewandte Chemie*, **2017**, 129, 4234-4237	3.6	16
11	Innenr□cktitelbild: Amine-Rich Nitrogen-Doped Carbon Nanodots as a Platform for Self-Enhancing Electrochemiluminescence (Angew. Chem. 17/2017). *Angewandte Chemie*, **2017**, 129, 4971-4971	3.6	1
10	Rationally Designed Carbon Nanodots towards Pure White-Light Emission. *Angewandte Chemie - International Edition*, **2017**, 56, 4170-4173	16.4	76
9	Amine-Rich Nitrogen-Doped Carbon Nanodots as a Platform for Self-Enhancing Electrochemiluminescence. *Angewandte Chemie - International Edition*, **2017**, 56, 4757-4761	16.4	145
8	Amine-Rich Nitrogen-Doped Carbon Nanodots as a Platform for Self-Enhancing Electrochemiluminescence. *Angewandte Chemie*, **2017**, 129, 4835-4839	3.6	31
7	Porphyrin Antennas on Carbon Nanodots: Excited State Energy and Electron Transduction. *Angewandte Chemie - International Edition*, **2017**, 56, 12097-12101	16.4	50
6	Porphyrin Antennas on Carbon Nanodots: Excited State Energy and Electron Transduction. *Angewandte Chemie*, **2017**, 129, 12265-12269	3.6	13
5	Synthesis, Separation, and Characterization of Small and Highly Fluorescent Nitrogen-Doped Carbon NanoDots. *Angewandte Chemie*, **2016**, 128, 2147-2152	3.6	59
4	Synthesis, Separation, and Characterization of Small and Highly Fluorescent Nitrogen-Doped Carbon NanoDots. *Angewandte Chemie - International Edition*, **2016**, 55, 2107-12	16.4	203
3	Binding abilities of new cyclodextrin□ucurbituril supramolecular hosts. *Supramolecular Chemistry*, **2015**, 27, 233-243	1.8	2
2	Selective Functionalization of Halloysite Cavity by Click Reaction: Structured Filler for Enhancing Mechanical Properties of Bionanocomposite Films. *Journal of Physical Chemistry C*, **2014**, 118, 15095-15101	4.8	54
1	Efficient and Stable Perovskite Solar Cells based on Nitrogen-Doped Carbon Nanodots. *Energy Technology*,2101059	3.5	0