Ludovico Cademartiri

List of Publications by Year
in descending order

69 papers	4,276 citations	147566 31 h-index	106150 65 g-index
78 all docs	78 docs citations	78 times ranked	6850 citing authors

#	Article	IF	Citations
1	Size-Dependent Extinction Coefficients of PbS Quantum Dots. Journal of the American Chemical Society, 2006, 128, 10337-10346.	6.6	406
2	From colour fingerprinting to the control of photoluminescence in elastic photonic crystals. Nature Materials, 2006, 5, 179-184.	13.3	392
3	Ultrathin Nanowiresâ€”A Materials Chemistry Perspective. Advanced Materials, 2009, 21, 1013-1020.	11.1	347
4	Multigram Scale, Solventless, and Diffusion-Controlled Route to Highly Monodisperse PbS Nanocrystals. Journal of Physical Chemistry B, 2006, 110, 671-673.	1.2	276
5	Nanofabrication by self-assembly. Materials Today, 2009, 12, 12-23.	8.3	268
6	Programmable self-assembly. Nature Materials, 2015, 14, 2-9.	13.3	233
7	Using Explosions to Power a Soft Robot. Angewandte Chemie - International Edition, 2013, 52, 2892-2896.	7.2	227
8	Electrical Resistance of Ag^{TS}â€“S(CH₂)_{<i>n</i>â^’1}CH₃//Ga₂O₃/EGaIn Tunneling Junctions. Journal of Physical Chemistry C, 2012, 116, 10848-10860.	1.5	197
9	Thermal Processing of Silicones for Green, Scalable, and Healable Superhydrophobic Coatings. Advanced Materials, 2016, 28, 3677-3682.	11.1	165
10	Largeâ€Scale Synthesis of Ultrathin Bi₂S₃ Necklace Nanowires. Angewandte Chemie - International Edition, 2008, 47, 3814-3817.	7.2	138
11	Shape-Controlled Bi2S3 Nanocrystals and Their Plasma Polymerization into Flexible Films. Advanced Materials, 2006, 18, 2189-2194.	11.1	122
12	Three-dimensional silicon inverse photonic quasicrystals for infrared wavelengths. Nature Materials, 2006, 5, 942-945.	13.3	121
13	Using shape for self-assembly. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 2824-2847.	1.6	93
14	Cross-Linking Bi2S3 Ultrathin Nanowires: A Platform for Nanostructure Formation and Biomolecule Detection. Nano Letters, 2009, 9, 1482-1486.	4.5	75
15	Polymer-like Conformation and Growth Kinetics of Bi₂S₃ Nanowires. Journal of the American Chemical Society, 2012, 134, 9327-9334.	6.6	62
16	Ultrathin Bi₂S₃ Nanowires: Surface and Core Structure at the Cluster-Nanocrystal Transition. Journal of the American Chemical Society, 2010, 132, 9058-9068.	6.6	61
17	Hydrogel-based transparent soils for root phenotyping in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11063-11068.	3.3	58
18	Calcination does not remove all carbon from colloidal nanocrystal assemblies. Nature Communications, 2017, 8, 2038.	5.8	52

#	Article	IF	Citations
19	Electric winds driven by time oscillating corona discharges. Journal of Applied Physics, 2013, 114, .	1.1	51
20	C60â˘PMO: Periodic Mesoporous Buckyballsilica. Journal of the American Chemical Society, 2007, 129, 15644-15649.	6.6	49
21	Nanocrystal Plasma Polymerization: From Colloidal Nanocrystals to Inorganic Architectures. Accounts of Chemical Research, 2008, 41, 1820-1830.	7.6	45
22	ac electric fields drive steady flows in flames. Physical Review E, 2012, 86, 036314.	0.8	45
23	Ultrathin Sb₂S₃nanowires and nanoplatelets. Journal of Materials Chemistry, 2008, 18, 66-69.	6.7	44
24	Nanochemistry: What Is Next?. Small, 2009, 5, 1240-1244.	5.2	42
25	Nanocrystals as Precursors for Flexible Functional Films. Small, 2005, 1, 1184-1187.	5.2	40
26	Surface and buried interface layer studies on challenging structures as studied by ARXPS. Surface and Interface Analysis, 2017, 49, 1309-1315.	0.8	40
27	Survey of Materials for Nanoskiving and Influence of the Cutting Process on the Nanostructures Produced. ACS Applied Materials & Interfaces, 2010, 2, 2503-2514.	4.0	37
28	On the nature and importance of the transition between molecules and nanocrystals: towards a chemistry of â€œnanoscale perfectionâ€. Nanoscale, 2011, 3, 3435.	2.8	33
29	Building Materials from Colloidal Nanocrystal Arrays: Preventing Crack Formation during Ligand Removal by Controlling Structure and Solvation. Advanced Materials, 2016, 28, 8892-8899.	11.1	33
30	Flexible One-Dimensional Nanostructures: A Review. Journal of Materials Science and Technology, 2015, 31, 607-615.	5.6	27
31	Nanowires and Nanostructures that Grow like Polymer Molecules. Advanced Materials, 2013, 25, 4829-4844.	11.1	23
32	LEGOÂ® Bricks as Building Blocks for Centimeter-Scale Biological Environments: The Case of Plants. PLoS ONE, 2014, 9, e100867.	1.1	23
33	Flux-Assisted Self-Assembly of Monodisperse Colloids. Langmuir, 2003, 19, 7944-7947.	1.6	22
34	Building Materials from Colloidal Nanocrystal Arrays: Evolution of Structure, Composition, and Mechanical Properties upon the Removal of Ligands by O₂ Plasma. Advanced Materials, 2016, 28, 8900-8905.	11.1	22
35	Plasma within Templates:â€‰ Molding Flexible Nanocrystal Solids into Multifunctional Architectures. Nano Letters, 2007, 7, 3864-3868.	4.5	21
36	Emerging strategies for the synthesis of highly monodisperse colloidal nanostructures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4229-4248.	1.6	20

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37	Selective Removal of Ligands from Colloidal Nanocrystal Assemblies with Non-Oxidizing He Plasmas. Chemistry of Materials, 2018, 30, 5961-5967.	3.2	17
38	The early stages of the self-assembly process of polystyrene beads for photonic applications. Synthetic Metals, 2003, 139, 667-670.	2.1	16
39	Simplicity as a Route to Impact in Materials Research. Advanced Materials, 2017, 29, 1604681.	11.1	15
40	Recent advances in the synthesis of colloidal nanowires. Canadian Journal of Chemistry, 2012, 90, 1032-1047.	0.6	14
41	Stress response to CO2 deprivation by Arabidopsis thaliana in plant cultures. PLoS ONE, 2019, 14, e0212462.	1.1	14
42	Sustainable scalable synthesis of sulfide nanocrystals at low cost with an ionic liquid sulfur precursor. Nature Communications, 2018, 9, 4078.	5.8	13
43	Building Materials from Colloidal Nanocrystal Assemblies: Molecular Control of Solid/Solid Interfaces in Nanostructured Tetragonal ZrO2. Chemistry of Materials, 2017, 29, 7888-7900.	3.2	12
44	Suppressing Evaporative Loss in Slippery Liquid-Infused Porous Surfaces (SLIPS) with Self-Suspended Perfluorinated Nanoparticles. Langmuir, 2020, 36, 5106-5111.	1.6	12
45	Self-Limiting Processes in the Flame-Based Fabrication of Superhydrophobic Surfaces from Silicones. ACS Applied Materials & Interfaces, 2019, 11, 29231-29241.	4.0	11
46	Inside Cover: Large-Scale Synthesis of Ultrathin Bi2S3 Necklace Nanowires (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.2	7
47	From Ideas to Innovation: Nanochemistry as a Case Study. Small, 2011, 7, 49-54.	5.2	7
48	Sulfur in oleylamine as a powerful and versatile etchant for oxide, sulfide, and metal colloidal nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600543.	0.8	7
49	Evidence for root adaptation to a spatially discontinuous water availability in the absence of external water potential gradients. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2012892118.	3.3	7
50	A Simple and Versatile 2-Dimensional Platform to Study Plant Germination and Growth under Controlled Humidity. PLoS ONE, 2014, 9, e96730.	1.1	5
51	Large-Scale Synthesis of Colloidal Si Nanocrystals and Their Helium Plasma Processing into Spin-On, Carbon-Free Nanocrystalline Si Films. ACS Applied Materials & Interfaces, 2018, 10, 20740-20747.	4.0	5
52	Self-Regulated Porosity and Reactivity in Mesoporous Heterogeneous Catalysts Using Colloidal Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 18410-18416.	1.5	5
53	Iran: let's keep politics in the realm of rationality. Nature, 2006, 443, 906-906.	13.7	4
54	Plant Growth Environments with Programmable Relative Humidity and Homogeneous Nutrient Availability. PLoS ONE, 2016, 11, e0155960.	1.1	4

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55	On the kinetics of the removal of ligands from films of colloidal nanocrystals by plasmas. Physical Chemistry Chemical Physics, 2019, 21, 1614-1622.	1.3	4
56	Optics-free, plasma-based lithography in inorganic resists made up of nanoparticles. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2016, 15, 031607.	1.0	3
57	HOMEs for plants and microbes â€" a phenotyping approach with quantitative control of signaling between organisms and their individual environments. Lab on A Chip, 2018, 18, 620-626.	3.1	3
58	From Petri Dishes to Model Ecosystems. Trends in Plant Science, 2018, 23, 378-381.	4.3	3
59	Growth of Colloidal Nanocrystals by Liquidâ€Like Coalescence**. Angewandte Chemie - International Edition, 2021, 60, 6667-6672.	7.2	2
60	Towards bulk syntheses of nanomaterials: a homeostatically supersaturated synthesis of polymer-like Bi2S3 nanowires with nearly 100% yield and no injection. RSC Advances, 2016, 6, 113815-113819.	1.7	1
61	Optics-free lithography on colloidal nanocrystal assemblies. Proceedings of SPIE, 2016, , .	0.8	1
62	Fabrication And Characterization Of PbS Quantum Dots. AIP Conference Proceedings, 2005, , .	0.3	0
63	PbS Nanocrystal â€œPlasma-Polymerizationâ€. Materials Research Society Symposia Proceedings, 2005, 901, 1.	0.1	0
64	Fabrication of three-dimensional photonic quasicrystals for the near-infrared spectral region. , 2006, , .		0
65	Nanocrystal Plasma Polymerization. AIP Conference Proceedings, 2007, , .	0.3	0
66	Nano-Age. How Nanotechnology Changes our Future. Von Mario Pagliaro.. Angewandte Chemie, 2011, 123, 1022-1023.	1.6	0
67	Nanowires and Nanostructures that Grow like Polymer Molecules (Adv. Mater. 35/2013). Advanced Materials, 2013, 25, 4828-4828.	11.1	0
68	Growth of Colloidal Nanocrystals by Liquidâ€Like Coalescence**. Angewandte Chemie, 2021, 133, 6741-6746.	1.6	0
69	Silicon based colloidal quantum dot photonic crystal light emitters at telecom wavelengths. , 2008, , .		0