

# Ludovico Cademartiri

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

4,276  
citations

147801

31  
h-index

106344

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. <i>Journal of the American Chemical Society</i> , 2006, 128, 10337-10346.	13.7	406
2	From colour fingerprinting to the control of photoluminescence in elastic photonic crystals. <i>Nature Materials</i> , 2006, 5, 179-184.	27.5	392
3	Ultrathin Nanowires—A Materials Chemistry Perspective. <i>Advanced Materials</i> , 2009, 21, 1013-1020.	21.0	347
4	Multigram Scale, Solventless, and Diffusion-Controlled Route to Highly Monodisperse PbS Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2006, 110, 671-673.	2.6	276
5	Nanofabrication by self-assembly. <i>Materials Today</i> , 2009, 12, 12-23.	14.2	268
6	Programmable self-assembly. <i>Nature Materials</i> , 2015, 14, 2-9.	27.5	233
7	Using Explosions to Power a Soft Robot. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2892-2896.	13.8	227
8	Electrical Resistance of Ag <sup>TS</sup> –S(CH <sub>2</sub> ) <sub>n</sub> –1CH <sub>3</sub> /Ga <sub>2</sub> O <sub>3</sub> /EGaIn Tunneling Junctions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10848-10860.		197
9	Thermal Processing of Silicones for Green, Scalable, and Healable Superhydrophobic Coatings. <i>Advanced Materials</i> , 2016, 28, 3677-3682.	21.0	165
10	Large-Scale Synthesis of Ultrathin Bi <sub>2</sub> S <sub>3</sub> Necklace Nanowires. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3814-3817.	13.8	138
11	Shape-Controlled Bi <sub>2</sub> S <sub>3</sub> Nanocrystals and Their Plasma Polymerization into Flexible Films. <i>Advanced Materials</i> , 2006, 18, 2189-2194.	21.0	122
12	Three-dimensional silicon inverse photonic quasicrystals for infrared wavelengths. <i>Nature Materials</i> , 2006, 5, 942-945.	27.5	121
13	Using shape for self-assembly. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2824-2847.	3.4	93
14	Cross-Linking Bi <sub>2</sub> S <sub>3</sub> Ultrathin Nanowires: A Platform for Nanostructure Formation and Biomolecule Detection. <i>Nano Letters</i> , 2009, 9, 1482-1486.	9.1	75
15	Polymer-like Conformation and Growth Kinetics of Bi <sub>2</sub> S <sub>3</sub> Nanowires. <i>Journal of the American Chemical Society</i> , 2012, 134, 9327-9334.	13.7	62
16	Ultrathin Bi <sub>2</sub> S <sub>3</sub> Nanowires: Surface and Core Structure at the Cluster-Nanocrystal Transition. <i>Journal of the American Chemical Society</i> , 2010, 132, 9058-9068.	13.7	61
17	Hydrogel-based transparent soils for root phenotyping in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11063-11068.	7.1	58
18	Calcination does not remove all carbon from colloidal nanocrystal assemblies. <i>Nature Communications</i> , 2017, 8, 2038.	12.8	52

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19	Electric winds driven by time oscillating corona discharges. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	51
20	C60 <sup>+</sup> PMO: Periodic Mesoporous Buckyballsilica. <i>Journal of the American Chemical Society</i> , 2007, 129, 15644-15649.	13.7	49
21	Nanocrystal Plasma Polymerization: From Colloidal Nanocrystals to Inorganic Architectures. <i>Accounts of Chemical Research</i> , 2008, 41, 1820-1830.	15.6	45
22	ac electric fields drive steady flows in flames. <i>Physical Review E</i> , 2012, 86, 036314.	2.1	45
23	Ultrathin Sb <sub>2</sub> S <sub>3</sub> nanowires and nanoplatelets. <i>Journal of Materials Chemistry</i> , 2008, 18, 66-69.	6.7	44
24	Nanochemistry: What Is Next?. <i>Small</i> , 2009, 5, 1240-1244.	10.0	42
25	Nanocrystals as Precursors for Flexible Functional Films. <i>Small</i> , 2005, 1, 1184-1187.	10.0	40
26	Surface and buried interface layer studies on challenging structures as studied by ARXPS. <i>Surface and Interface Analysis</i> , 2017, 49, 1309-1315.	1.8	40
27	Survey of Materials for Nanoskiving and Influence of the Cutting Process on the Nanostructures Produced. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2503-2514.	8.0	37
28	On the nature and importance of the transition between molecules and nanocrystals: towards a chemistry of "nanoscale perfection". <i>Nanoscale</i> , 2011, 3, 3435.	5.6	33
29	Building Materials from Colloidal Nanocrystal Arrays: Preventing Crack Formation during Ligand Removal by Controlling Structure and Solvation. <i>Advanced Materials</i> , 2016, 28, 8892-8899.	21.0	33
30	Flexible One-Dimensional Nanostructures: A Review. <i>Journal of Materials Science and Technology</i> , 2015, 31, 607-615.	10.7	27
31	Nanowires and Nanostructures that Grow like Polymer Molecules. <i>Advanced Materials</i> , 2013, 25, 4829-4844.	21.0	23
32	LEGO® Bricks as Building Blocks for Centimeter-Scale Biological Environments: The Case of Plants. <i>PLoS ONE</i> , 2014, 9, e100867.	2.5	23
33	Flux-Assisted Self-Assembly of Monodisperse Colloids. <i>Langmuir</i> , 2003, 19, 7944-7947.	3.5	22
34	Building Materials from Colloidal Nanocrystal Arrays: Evolution of Structure, Composition, and Mechanical Properties upon the Removal of Ligands by O <sub>2</sub> Plasma. <i>Advanced Materials</i> , 2016, 28, 8900-8905.	21.0	22
35	Plasma within Templates: Molding Flexible Nanocrystal Solids into Multifunctional Architectures. <i>Nano Letters</i> , 2007, 7, 3864-3868.	9.1	21
36	Emerging strategies for the synthesis of highly monodisperse colloidal nanostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4229-4248.	3.4	20

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37	Selective Removal of Ligands from Colloidal Nanocrystal Assemblies with Non-Oxidizing He Plasmas. <i>Chemistry of Materials</i> , 2018, 30, 5961-5967.	6.7	17
38	The early stages of the self-assembly process of polystyrene beads for photonic applications. <i>Synthetic Metals</i> , 2003, 139, 667-670.	3.9	16
39	Simplicity as a Route to Impact in Materials Research. <i>Advanced Materials</i> , 2017, 29, 1604681.	21.0	15
40	Recent advances in the synthesis of colloidal nanowires. <i>Canadian Journal of Chemistry</i> , 2012, 90, 1032-1047.	1.1	14
41	Stress response to CO <sub>2</sub> deprivation by <i>Arabidopsis thaliana</i> in plant cultures. <i>PLoS ONE</i> , 2019, 14, e0212462.	2.5	14
42	Sustainable scalable synthesis of sulfide nanocrystals at low cost with an ionic liquid sulfur precursor. <i>Nature Communications</i> , 2018, 9, 4078.	12.8	13
43	Building Materials from Colloidal Nanocrystal Assemblies: Molecular Control of Solid/Solid Interfaces in Nanostructured Tetragonal ZrO <sub>2</sub> . <i>Chemistry of Materials</i> , 2017, 29, 7888-7900.	6.7	12
44	Suppressing Evaporative Loss in Slippery Liquid-Infused Porous Surfaces (SLIPS) with Self-Suspended Perfluorinated Nanoparticles. <i>Langmuir</i> , 2020, 36, 5106-5111.	3.5	12
45	Self-Limiting Processes in the Flame-Based Fabrication of Superhydrophobic Surfaces from Silicones. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29231-29241.	8.0	11
46	Inside Cover: Large-Scale Synthesis of Ultrathin Bi <sub>2</sub> S <sub>3</sub> Necklace Nanowires ( <i>Angew. Chem. Int. Ed.</i> ) Tj ETQq0 0 0 rgBT (Overlock 10 Tf 50	13.8	7
47	From Ideas to Innovation: Nanochemistry as a Case Study. <i>Small</i> , 2011, 7, 49-54.	10.0	7
48	Sulfur in oleylamine as a powerful and versatile etchant for oxide, sulfide, and metal colloidal nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600543.	1.8	7
49	Evidence for root adaptation to a spatially discontinuous water availability in the absence of external water potential gradients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2012892118.	7.1	7
50	A Simple and Versatile 2-Dimensional Platform to Study Plant Germination and Growth under Controlled Humidity. <i>PLoS ONE</i> , 2014, 9, e96730.	2.5	5
51	Large-Scale Synthesis of Colloidal Si Nanocrystals and Their Helium Plasma Processing into Spin-On, Carbon-Free Nanocrystalline Si Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20740-20747.	8.0	5
52	Self-Regulated Porosity and Reactivity in Mesoporous Heterogeneous Catalysts Using Colloidal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18410-18416.	3.1	5
53	Iran: let's keep politics in the realm of rationality. <i>Nature</i> , 2006, 443, 906-906.	27.8	4
54	Plant Growth Environments with Programmable Relative Humidity and Homogeneous Nutrient Availability. <i>PLoS ONE</i> , 2016, 11, e0155960.	2.5	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.	2.8	4
56	Optics-free, plasma-based lithography in inorganic resists made up of nanoparticles. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2016, 15, 031607.	0.9	3
57	HOMEs for plants and microbes – a phenotyping approach with quantitative control of signaling between organisms and their individual environments. Lab on A Chip, 2018, 18, 620-626.	6.0	3
58	From Petri Dishes to Model Ecosystems. Trends in Plant Science, 2018, 23, 378-381.	8.8	3
59	Growth of Colloidal Nanocrystals by Liquid-Like Coalescence**. Angewandte Chemie - International Edition, 2021, 60, 6667-6672.	13.8	2
60	Towards bulk syntheses of nanomaterials: a homeostatically supersaturated synthesis of polymer-like Bi <sub>2</sub> S <sub>3</sub> nanowires with nearly 100% yield and no injection. RSC Advances, 2016, 6, 113815-113819.	3.6	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, , .	0.4	0
63	PbS Nanocrystal –Plasma-Polymerization–. 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, , .	0.4	0
66	Nano-Age. How Nanotechnology Changes our Future. Von Mario Pagliaro.. Angewandte Chemie, 2011, 123, 1022-1023.	2.0	0
67	Nanowires and Nanostructures that Grow like Polymer Molecules (Adv. Mater. 35/2013). Advanced Materials, 2013, 25, 4828-4828.	21.0	0
68	Growth of Colloidal Nanocrystals by Liquid-Like Coalescence**. Angewandte Chemie, 2021, 133, 6741-6746.	2.0	0
69	Silicon based colloidal quantum dot photonic crystal light emitters at telecom wavelengths. , 2008, , .		0