

# Luca Ortolani

## List of Publications by Year in descending order

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76  
papers

2,700  
citations

218677

26  
h-index

182427

51  
g-index

77  
all docs

77  
docs citations

77  
times ranked

5011  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solutions of Negatively Charged Graphene Sheets and Ribbons. <i>Journal of the American Chemical Society</i> , 2008, 130, 15802-15804.	13.7	444
2	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	4.4	333
3	Surfactant-free single-layer graphene in water. <i>Nature Chemistry</i> , 2017, 9, 347-352.	13.6	175
4	Nanoscale insight into the exfoliation mechanism of graphene with organic dyes: effect of charge, dipole and molecular structure. <i>Nanoscale</i> , 2013, 5, 4205.	5.6	116
5	Fragmentation and exfoliation of 2-dimensional materials: a statistical approach. <i>Nanoscale</i> , 2014, 6, 5926-5933.	5.6	100
6	Facile covalent functionalization of graphene oxide using microwaves: bottom-up development of functional graphitic materials. <i>Journal of Materials Chemistry</i> , 2010, 20, 9052.	6.7	82
7	Graphene solutions. <i>Chemical Communications</i> , 2011, 47, 5470-5472.	4.1	78
8	High-Temperature Growth of Graphene Films on Copper Foils by Ethanol Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21569-21576.	3.1	68
9	Highly Luminescent Colloidal CdS Quantum Dots with Efficient Near-Infrared Electroluminescence in Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1871-1880.	3.1	65
10	Design of nano-sized FeOx and Au/FeOx catalysts supported on CeO2 for total oxidation of VOC. <i>Applied Catalysis A: General</i> , 2011, 395, 10-18.	4.3	59
11	Folded Graphene Membranes: Mapping Curvature at the Nanoscale. <i>Nano Letters</i> , 2012, 12, 5207-5212.	9.1	55
12	Structural and gas-sensing characterization of tungsten oxide nanorods and nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 340-346.	7.8	53
13	Catalytic combustion of toluene over cluster-derived gold/iron catalysts. <i>Applied Catalysis A: General</i> , 2010, 372, 138-146.	4.3	52
14	Solutions of fully exfoliated individual graphene flakes in low boiling point solvents. <i>Soft Matter</i> , 2012, 8, 7882.	2.7	46
15	Accessing stable zirconium carboxy-aminophosphonate nanosheets as support for highly active Pd nanoparticles. <i>Chemical Communications</i> , 2015, 51, 15990-15993.	4.1	42
16	Graphene as transparent front contact for dye sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 135, 99-105.	6.2	40
17	Synthesis and properties of ZnTe and ZnTe/ZnS core/shell semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2877-2886.	5.5	39
18	Rapid and highly efficient growth of graphene on copper by chemical vapor deposition of ethanol. <i>Thin Solid Films</i> , 2014, 571, 139-144.	1.8	38

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19	Electrochemically exfoliated graphene oxide/iron oxide composite foams for lithium storage, produced by simultaneous graphene reduction and Fe(OH) <sub>3</sub> condensation. <i>Carbon</i> , 2015, 84, 254-262.	10.3	38
20	Green and easily scalable microwave synthesis of noble metal nanosols (Au, Ag, Cu, Pd) usable as catalysts. <i>New Journal of Chemistry</i> , 2014, 38, 1401-1409.	2.8	36
21	Novel Keplerate type polyoxometalate-surfactant-graphene hybrids as advanced electrode materials for supercapacitors. <i>Energy Storage Materials</i> , 2019, 17, 186-193.	18.0	34
22	Micron-sized [6,6]-phenyl C61 butyric acid methyl ester crystals grown by dip coating in solvent vapour atmosphere: interfaces for organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4473.	2.8	31
23	Graphene-organic hybrids as processable, tunable platforms for pH-dependent photoemission, obtained by a new modular approach. <i>Journal of Materials Chemistry</i> , 2012, 22, 18237.	6.7	30
24	Taguchi optimized synthesis of graphene films by copper catalyzed ethanol decomposition. <i>Diamond and Related Materials</i> , 2014, 41, 73-78.	3.9	29
25	<i>In situ</i> formation and photo patterning of emissive quantum dots in small organic molecules. <i>Nanoscale</i> , 2015, 7, 11163-11172.	5.6	29
26	Chemical Vapor Deposited Graphene-Based Derivative As High-Performance Hole Transport Material for Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23844-23853.	8.0	29
27	Growth of Photoluminescent Cadmium Sulphide Quantum Dots from Soluble Single Source Precursors in Solution and in Film. <i>Science of Advanced Materials</i> , 2015, 7, 1-14.	0.7	27
28	Time and Temperature Dependence of CdS Nanoparticles Grown in a Polystyrene Matrix. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-11.	2.7	25
29	Enhancement of electrical and thermal conductivity of Su-8 photocrosslinked coatings containing graphene. <i>Progress in Organic Coatings</i> , 2015, 86, 143-146.	3.9	25
30	CdTe solar cells: technology, operation and reliability. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 333002.	2.8	25
31	Supramolecular self-assembly of graphene oxide and metal nanoparticles into stacked multilayers by means of a multitasking protein ring. <i>Nanoscale</i> , 2016, 8, 6739-6753.	5.6	24
32	Controllable, eco-friendly, synthesis of highly crystalline 2D-MoS <sub>2</sub> and clarification of the role of growth-induced strain. <i>2D Materials</i> , 2018, 5, 035035.	4.4	23
33	Dispersion Stability and Surface Morphology Study of Electrochemically Exfoliated Bilayer Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15122-15130.	3.1	23
34	Structural and electrochemical characterization of lawsone-dependent production of tellurium-metal nanoprecipitates by photosynthetic cells of <i>Rhodobacter capsulatus</i> . <i>Bioelectrochemistry</i> , 2020, 133, 107456.	4.6	21
35	ITO-Free Organic Light-Emitting Transistors with Graphene Gate Electrode. <i>ACS Photonics</i> , 2014, 1, 1082-1088.	6.6	20
36	Photoactive Dendrimer for Water Photoreduction: A Scaffold to Combine Sensitizers and Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 798-803.	4.6	20

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37	Surface properties modulate protein corona formation and determine cellular uptake and cytotoxicity of silver nanoparticles. <i>Nanoscale</i> , 2021, 13, 14119-14129.	5.6	20
38	Boron doping of silicon rich carbides: Electrical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 551-558.	3.5	18
39	Reductive dismantling and functionalization of carbon nanohorns. <i>Chemical Communications</i> , 2015, 51, 5017-5019.	4.1	18
40	Graphene as transparent conducting layer for high temperature thin film device applications. <i>Solar Energy Materials and Solar Cells</i> , 2015, 138, 35-40.	6.2	18
41	Lateral epitaxial growth of germanium on silicon oxide. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	16
42	Chirality dependent surface adhesion of single-walled carbon nanotubes on graphene surfaces. <i>Carbon</i> , 2010, 48, 3050-3056.	10.3	16
43	Large-area patterning of substrate-conformal MoS2 nano-trenches. <i>Nano Research</i> , 2019, 12, 1851-1854.	10.4	16
44	Surface electrostatic potentials in carbon nanotubes and graphene membranes investigated with electron holography. <i>Carbon</i> , 2011, 49, 1423-1429.	10.3	15
45	Enantiopure polythiophene nanoparticles. Chirality dependence of cellular uptake, intracellular distribution and antimicrobial activity. <i>RSC Advances</i> , 2019, 9, 23036-23044.	3.6	15
46	Grapheneâ€“Epoxy Flexible Transparent Capacitor Obtained By Grapheneâ€“Polymer Transfer and UVâ€“Induced Bonding. <i>Macromolecular Rapid Communications</i> , 2014, 35, 355-359.	3.9	13
47	Microwave-assisted synthesis of Au, Ag and Au-Ag nanoparticles and their catalytic activities for the reduction of nitrophenol. <i>Studies in Surface Science and Catalysis</i> , 2010, , 621-624.	1.5	12
48	Uniform Functionalization of High-Quality Graphene with Platinum Nanoparticles for Electrocatalytic Water Reduction. <i>ChemistryOpen</i> , 2015, 4, 268-273.	1.9	12
49	Large area fabrication of self-standing nanoporous graphene-on-PMMA substrate. <i>Materials Letters</i> , 2016, 184, 47-51.	2.6	12
50	Cooperative and Reversible Anisotropic Assembly of Gold Nanoparticles by Modulation of Noncovalent Interparticle Interactions. <i>ChemNanoMat</i> , 2017, 3, 874-878.	2.8	12
51	Flexible Conductors from Brown Algae for Green Electronics. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900001.	5.3	11
52	Biological application of Compressed Sensing Tomography in the Scanning Electron Microscope. <i>Scientific Reports</i> , 2016, 6, 33354.	3.3	10
53	CdSe Spherical Quantum Dots Stabilised by Thiomalic Acid: Biphasic Wet Synthesis and Characterisation. <i>ChemPhysChem</i> , 2011, 12, 863-870.	2.1	9
54	Nanostructured magnetic metamaterials based on metal-filled carbon nanotubes. <i>Carbon</i> , 2016, 96, 720-728.	10.3	9

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55	Enhanced Performance of Graphene-Epoxy Flexible Capacitors by Means of Ceramic Fillers. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 707-713.	2.2	8
56	High yield production of graphene-Fe <sub>2</sub> O <sub>3</sub> nano-composites via electrochemical intercalation of nitromethane and iron chloride, and their application in lithium storage. <i>FlatChem</i> , 2017, 3, 8-15.	5.6	8
57	Large-Area Oxidized Phosphorene Nanoflakes Obtained by Electrospray for Energy-Harvesting Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 3476-3485.	5.0	8
58	Interference electron microscopy of one-dimensional electron-optical phase objects. <i>Ultramicroscopy</i> , 2006, 106, 620-629.	1.9	5
59	Sterilization of Semiconductive Nanomaterials: The Case of Water-Suspended Poly-Hexylthiophene Nanoparticles. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001306.	7.6	5
60	Development of Quantum Dot (QD) Based Color Converters for Multicolor Display. <i>Nanomaterials</i> , 2021, 11, 1089.	4.1	5
61	Electrical and holographic characterization of gold catalyzed titania-based layers. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4131-4134.	5.7	4
62	Improvement of Dye Solar Cell Efficiency by Photoanode Posttreatment. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-10.	2.5	4
63	Tracking graphene by fluorescence imaging: a tool for detecting multiple populations of graphene in solution. <i>Nanoscale</i> , 2016, 8, 8505-8511.	5.6	4
64	One pot synthesis of bi-linker stabilised CdSe quantum dots. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012067.	0.4	3
65	Formation of quantum dots from precursors in polymeric films by ps-laser. , 2013, , .		3
66	STEM electron tomography in the Scanning Electron Microscope. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012012.	0.4	3
67	Electrically conductive gamma-alumina/amorphous carbon nano-composite foams. <i>Journal of Alloys and Compounds</i> , 2017, 694, 921-928.	5.5	3
68	New active meso-porous titania foam as size limiter for metal nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1611-1619.	5.5	3
69	Nanostructuring Iridium Complexes into Crystalline Phosphorescent Nanoparticles: Structural Characterization, Photophysics, and Biological Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 4594-4603.	4.6	3
70	Folds and Buckles at the Nanoscale: Experimental and Theoretical Investigation of the Bending Properties of Graphene Membranes. <i>Topics in Current Chemistry</i> , 2013, 348, 205-236.	4.0	1
71	Marino Ortolani: "Does That Baby's Hip Go Click?" Perspectives in Biology and Medicine, 2014, 57, 538-546.	0.5	1
72	A new apparatus for electron tomography in the scanning electron microscope. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1

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73	Graphene-lipids interaction: Towards the fabrication of a novel sensor for biomedical uses. , 2015, , .		1
74	Room temperature ferromagnetism in low dose ion implanted counter-doped Ge:Mn, As. Physica B: Condensed Matter, 2017, 523, 1-5.	2.7	1
75	AC parallel local oxidation of silicon. Nanoscale Advances, 2019, 1, 3887-3891.	4.6	0
76	The effect of metal ligands on the adsorption of metal coordination complexes on polystyrene nano-beads. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 541-547.	4.7	0