Andrea Lamberti

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116 papers	3,453 citations	35 h-index	53 g-index
122 ext. papers	3,880 ext. citations	5.7 avg, IF	5.62 L-index

#	Paper	IF	Citations
116	A perspective on laser-induced graphene for micro-supercapacitor application. *Applied Physics Letters*, **2022**, 120, 100501	3.4	4
115	Laser-Induced Graphenization of PDMS as Flexible Electrode for Microsupercapacitors. *Advanced Materials Interfaces*, **2021**, 8, 2101046	4.6	3
114	Scalable nanophotonic neural probes for multicolor and on-demand light delivery in brain tissue. *Nanotechnology*, **2021**,	3.4	1
113	Tragacanth Gum as Green Binder for Sustainable Water-Processable Electrochemical Capacitor. *ChemSusChem*, **2021**, 14, 356-362	8.3	9
112	Laser-induced graphenization of textile yarn for wearable electronics application. *Smart Materials and Structures*, **2021**, 30, 105007	3.4	3
111	A facile, safe and controllable morphology synthesis of rGO_Cu2O nanocomposite as a binder-free electrode for electrochemical capacitors. *Electrochimica Acta*, **2021**, 390, 138856	6.7	3
110	An Integrated Device for the Solar-Driven Electrochemical Conversion of CO2 to CO. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7563-7568	8.3	9
109	Binder Free and Flexible Asymmetric Supercapacitor Exploiting MnO and MoS Nanoflakes on Carbon Fibers. *Nanomaterials*, **2020**, 10,	5.4	14
108	Toxicity assessment of laser-induced graphene by zebrafish during development. *JPhys Materials*, **2020**, 3, 034008	4.2	20
107	Langmuir adsorption processes and ion transport under bias potential in capacitive deionisation cells. *Electrochimica Acta*, **2020**, 348, 136288	6.7	4
106	Graphene Oxide Membranes for Trace Hydrocarbon Contaminant Removal from Aqueous Solution. *Nanomaterials*, **2020**, 10,	5.4	2
105	Flexible and high temperature supercapacitor based on laser-induced graphene electrodes and ionic liquid electrolyte, a de-rated voltage analysis. *Electrochimica Acta*, **2020**, 357, 136838	6.7	23
104	Syngas production by electrocatalytic reduction of CO2 using Ag-decorated TiO2 nanotubes. *International Journal of Hydrogen Energy*, **2020**, 45, 26458-26471	6.7	17
103	Generalized Langmuir kinetic equation for ions adsorption model applied to electrical double layer capacitor. *Electrochimica Acta*, **2019**, 323, 134700	6.7	2
102	Frequency dependence of the phenomenological parameters describing adsorption processes in supercapacitors. *Electrochimica Acta*, **2019**, 316, 181-188	6.7	5
101	Multifunctional flexible membranes based on reduced graphene oxide/tin dioxide nanocomposite and cellulose fibers. *Electrochimica Acta*, **2019**, 306, 420-426	6.7	11
100	PDMS/Polyimide Composite as an Elastomeric Substrate for Multifunctional Laser-Induced Graphene Electrodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 33221-33230	9.5	45

99	Electrolytes based on N-Butyl-N-Methyl-Pyrrolidinium 4,5-Dicyano-2-(Trifluoromethyl) Imidazole for High Voltage Electrochemical Double Layer Capacitors. *ChemElectroChem*, **2019**, 6, 552-557	4.3	3
98	Modeling of electrochemical capacitors under dynamical cycling. *Electrochimica Acta*, **2019**, 296, 709-718	6.7	7
97	Innovative multipolymer electrolyte membrane designed by oxygen inhibited UV-crosslinking enables solid-state in plane integration of energy conversion and storage devices. *Energy*, **2019**, 166, 789-795	7.9	71
96	Graphene Oxide Finely Tunes the Bioactivity and Drug Delivery of Mesoporous ZnO Scaffolds. *ACS Applied Materials & Interfaces*, **2019**, 11, 449-456	9.5	26
95	Fiber-shaped asymmetric supercapacitor exploiting rGO/Fe2O3 aerogel and electrodeposited MnOx nanosheets on carbon fibers. *Carbon*, **2019**, 144, 91-100	10.4	35
94	High energy and high voltage integrated photo-electrochemical double layer capacitor. *Sustainable Energy and Fuels*, **2018**, 2, 968-977	5.8	16
93	Evolution of nanomechanical properties and crystallinity of individual titanium dioxide nanotube resonators. *Nanotechnology*, **2018**, 29, 085702	3.4	6
92	3D-printed microfluidics on thin poly(methyl methacrylate) substrates for genetic applications. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2018**, 36, 01A106	1.3	16
91	TiO2 nanotube-based smart 3D electrodes by anodic oxidation of additively manufactured Ti6Al4V structures. *Materials Today Communications*, **2018**, 15, 165-170	2.5	2
90	Flexible supercapacitor electrodes based on MoS 2 -intercalated rGO membranes on Ti mesh. *Materials Science in Semiconductor Processing*, **2018**, 73, 106-110	4.3	25
89	Combined Structural, Chemometric, and Electrochemical Investigation of Vertically Aligned TiO Nanotubes for Na-ion Batteries. *ACS Omega*, **2018**, 3, 8440-8450	3.9	78
88	Crystallization of TiO Nanotubes by In Situ Heating TEM. *Nanomaterials*, **2018**, 8,	5.4	13
87	Graphene-Based Membrane Technology: Reaching Out to the Oil and Gas Industry. *Geofluids*, **2018**, 2018, 1-13	1.5	5
86	High-Performing and Stable Wearable Supercapacitor Exploiting rGO Aerogel Decorated with Copper and Molybdenum Sulfides on Carbon Fibers. *ACS Applied Energy Materials*, **2018**, 1, 4440-4447	6.1	74
85	Multiscale measurements of piezoelectric response of hydrothermal converted BaTiO3 1D vertical arrays. *Applied Physics Letters*, **2018**, 113, 253102	3.4	4
84	Portable High Voltage Integrated Harvesting-Storage Device Employing Dye-Sensitized Solar Module and All-Solid-State Electrochemical Double Layer Capacitor. *Frontiers in Chemistry*, **2018**, 6, 443	5	13
83	Flexible wire-based electrodes exploiting carbon/ZnO nanocomposite for wearable supercapacitors. *Ionics*, **2017**, 23, 1839-1847	2.7	4
82	A flexible and portable powerpack by solid-state supercapacitor and dye-sensitized solar cell integration. *Journal of Power Sources*, **2017**, 359, 311-321	8.9	105

81	Unveiling the controversial mechanism of reversible Na storage in TiO2 nanotube arrays: Amorphous versus anatase TiO2. *Nano Research*, **2017**, 10, 2891-2903	10	78
80	Anodically-grown TiO2 nanotubes: Effect of the crystallization on the catalytic activity toward the oxygen reduction reaction. *Applied Surface Science*, **2017**, 412, 447-454	6.7	15
79	New insights on laser-induced graphene electrodes for flexible supercapacitors: tunable morphology and physical properties. *Nanotechnology*, **2017**, 28, 174002	3.4	58
78	Interfacial Effects in Solid-Liquid Electrolytes for Improved Stability and Performance of Dye-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 37797-37803	9.5	63
77	Graphene as Barrier to Prevent Volume Increment of Air Bubbles over Silicone Polymer in Aqueous Environment. *Langmuir*, **2017**, 33, 12865-12872	4	1
76	UV-Printable and Flexible Humidity Sensors Based on Conducting/Insulating Semi-Interpenetrated Polymer Networks. *Macromolecular Materials and Engineering*, **2017**, 302, 1700161	3.9	15
75	SERS-active Metal-dielectric Nanostructures Integrated in Microfluidic Devices for Ultra-sensitive Label-free miRNA Detection. *Procedia Technology*, **2017**, 27, 37-38		
74	Graphene-Metal Nanostructures as Surface Enhanced Raman Scattering Substrates for Biosensing. *Procedia Technology*, **2017**, 27, 236-237		
73	Highly Uniform Anodically Deposited Film of MnO Nanoflakes on Carbon Fibers for Flexible and Wearable Fiber-Shaped Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 28386-28393	9.5	58
72	All-SPEEK flexible supercapacitor exploiting laser-induced graphenization. *2D Materials*, **2017**, 4, 035012	5.9	64
71	Electro-oxidation of phenol over electrodeposited MnOx nanostructures and the role of a TiO2 nanotubes interlayer. *Applied Catalysis B: Environmental*, **2017**, 203, 270-281	21.8	48
70	SERS-Active Ag Nanoparticles on Porous Silicon and PDMS Substrates: A Comparative Study of Uniformity and Raman Efficiency. *Journal of Physical Chemistry C*, **2016**, 120, 16946-16953	3.8	48
69	A Highly Stretchable Supercapacitor Using Laser-Induced Graphene Electrodes onto Elastomeric Substrate. *Advanced Energy Materials*, **2016**, 6, 1600050	21.8	144
68	Flexible solid-state CuxO-based pseudo-supercapacitor by thermal oxidation of copper foils. *International Journal of Hydrogen Energy*, **2016**, 41, 11700-11708	6.7	36
67	Real time monitoring of ultrafast sensitization for Dye-Sensitized Solar Cell photoanodes. *Solar Energy*, **2016**, 130, 74-80	6.8	5
66	Nanostructural evolution of one-dimensional BaTiO3 structures by hydrothermal conversion of vertically aligned TiO2 nanotubes. *Nanoscale*, **2016**, 8, 6866-76	7.7	14
65	Surface-enhanced Raman spectroscopy on porous silicon membranes decorated with Ag nanoparticles integrated in elastomeric microfluidic chips. *RSC Advances*, **2016**, 6, 21865-21870	3.7	26
64	Anodically Grown TiO2 Nanotube Membranes: Synthesis, Characterization, and Application in Dye-Sensitized Solar Cells **2016**, 1299-1325		

63	Floating, Flexible Polymeric Dye-Sensitized Solar-Cell Architecture: The Way of Near-Future Photovoltaics. *Advanced Materials Technologies*, **2016**, 1,	6.8	14
62	Memristive behaviour in poly-acrylic acid coated TiO nanotube arrays. *Nanotechnology*, **2016**, 27, 485208	3.4	19
61	In situ MoS2 Decoration of Laser-Induced Graphene as Flexible Supercapacitor Electrodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 10459-65	9.5	171
60	Self-assembly of graphene aerogel on copper wire for wearable fiber-shaped supercapacitors. *Carbon*, **2016**, 105, 649-654	10.4	55
59	Immobilization of Oligonucleotides on Metal-Dielectric Nanostructures for miRNA Detection. *Analytical Chemistry*, **2016**, 88, 9554-9563	7.8	32
58	TiO 2 nanotube array as biocompatible electrode in view of implantable supercapacitors. *Journal of Energy Storage*, **2016**, 8, 193-197	7.8	21
57	Microfluidic photocatalytic device exploiting PDMS/TiO2 nanocomposite. *Applied Surface Science*, **2015**, 335, 50-54	6.7	36
56	Optofluidic chip for surface wave-based fluorescence sensing. *Sensors and Actuators B: Chemical*, **2015**, 215, 225-230	8.5	12
55	Leveraging ZnO morphologies in piezoelectric composites for mechanical energy harvesting. *Nano Energy*, **2015**, 18, 212-221	17.1	29
54	As-grown vertically aligned amorphous TiO2 nanotube arrays as high-rate Li-based micro-battery anodes with improved long-term performance. *Electrochimica Acta*, **2015**, 151, 222-229	6.7	59
53	Toward quasi-solid state Dye-sensitized Solar Cells: Effect of Al 2 O 3 nanoparticle dispersion into liquid electrolyte. *Solar Energy*, **2015**, 111, 125-134	6.8	22
52	A flow-through holed PDMS membrane as a reusable microarray spotter for biomedical assays. *Lab on A Chip*, **2015**, 15, 67-71	7.2	9
51	Microfluidic electrochemical growth of vertically aligned TiO2 nanotubes for SERS optofluidic devices. *RSC Advances*, **2015**, 5, 105484-105488	3.7	4
50	Easy Tuning of Surface and Optical Properties of PDMS Decorated by Ag Nanoparticles. *Journal of Physical Chemistry B*, **2015**, 119, 8194-200	3.4	27
49	Ultrasensitive Ag-coated TiO2 nanotube arrays for flexible SERS-based optofluidic devices. *Journal of Materials Chemistry C*, **2015**, 3, 6868-6875	7.1	46
48	A long-term analysis of Pt counter electrodes for Dye-sensitized Solar Cells exploiting a microfluidic housing system. *Materials Chemistry and Physics*, **2015**, 161, 74-83	4.4	6
47	Comparison of photocatalytic and transport properties of TiO2 and ZnO nanostructures for solar-driven water splitting. *Physical Chemistry Chemical Physics*, **2015**, 17, 7775-86	3.6	190
46	Ultrafast room-temperature crystallization of TiO2 nanotubes exploiting water-vapor treatment. *Scientific Reports*, **2015**, 5, 7808	4.9	62

45	Metal-Elastomer nanostructures for tunable SERS and easy microfluidic integration. *RSC Advances*, **2015**, 5, 4404-4410	3.7	37
44	Anodically Grown TiO2 Nanotube Membranes: Synthesis, Characterization, and Application in Dye-Sensitized Solar Cells **2015**, 1-23		
43	Sponge-like ZnO nanostructures by low temperature water vapor-oxidation method as dye-sensitized solar cell photoanodes. *Journal of Alloys and Compounds*, **2014**, 615, S487-S490	5.7	18
42	Novel spongelike nanostructured ZnO films: Properties and applications. *Journal of Alloys and Compounds*, **2014**, 586, S331-S335	5.7	8
41	Investigation of Transport and Recombination Properties in Graphene/Titanium Dioxide Nanocomposite for Dye-Sensitized Solar Cell Photoanodes. *Electrochimica Acta*, **2014**, 131, 154-159	6.7	48
40	TiO2 nanotubes as flexible photoanode for back-illuminated dye-sensitized solar cells with hemi-squaraine organic dye and iodine-free transparent electrolyte. *Organic Electronics*, **2014**, 15, 3715-3722	3.5	63
39	Synthesis of ferroelectric BaTiO3 tube-like arrays by hydrothermal conversion of a vertically aligned TiO2 nanotube carpet. *New Journal of Chemistry*, **2014**, 38, 2024-2030	3.6	17
38	Novel electrode and electrolyte membranes: Towards flexible dye-sensitized solar cell combining vertically aligned TiO 2 nanotube array and light-cured polymer network. *Journal of Membrane Science*, **2014**, 470, 125-131	9.6	62
37	Cycling behaviour of sponge-like nanostructured ZnO as thin-film Li-ion battery anodes. *Journal of Alloys and Compounds*, **2014**, 615, S454-S458	5.7	32
36	Wetting Behavior of Hierarchical Oxide Nanostructures: TiO2Nanotubes from Anodic Oxidation Decorated with ZnO Nanostructures. *Journal of the Electrochemical Society*, **2014**, 161, D484-D488	3.9	22
35	Tunable electromechanical actuation in silicone dielectric film. *Smart Materials and Structures*, **2014**, 23, 105001	3.4	12
34	In-plane 2D focusing of surface waves by ultrathin refractive structures. *Optics Letters*, **2014**, 39, 6391-4	3	21
33	Magnetoelastic Clock System for Nanomagnet Logic. *IEEE Nanotechnology Magazine*, **2014**, 13, 963-973	2.6	30
32	PDMS membranes with tunable gas permeability for microfluidic applications. *RSC Advances*, **2014**, 4, 61415-61419	3.7	101
31	Coral-shaped ZnO nanostructures for dye-sensitized solar cell photoanodes. *Progress in Photovoltaics: Research and Applications*, **2014**, 22, 189-197	6.8	30
30	Multi-functional energy conversion and storage electrodes using flower-like Zinc oxide nanostructures. *Energy*, **2014**, 65, 639-646	7.9	76
29	Electric Clock for NanoMagnet Logic Circuits. *Lecture Notes in Computer Science*, **2014**, 73-110	0.9	6
28	Electric Clock for NanoMagnet Logic Circuits. *Lecture Notes in Computer Science*, **2014**, 73-110	0.9	4

27	Charge transport improvement employing TiO2 nanotube arrays as front-side illuminated dye-sensitized solar cell photoanodes. *Physical Chemistry Chemical Physics*, **2013**, 15, 2596-602	3.6	65
26	Enhancement of electron lifetime in dye-sensitized solar cells using anodically grown TiO2 nanotube/nanoparticle composite photoanodes. *Microelectronic Engineering*, **2013**, 111, 137-142	2.5	28
25	An easy approach for the fabrication of TiO2 nanotube-based transparent photoanodes for Dye-sensitized Solar Cells. *Solar Energy*, **2013**, 95, 90-98	6.8	44
24	Photodetection and piezoelectric response from hard and flexible sponge-like ZnO-based structures. *Nano Energy*, **2013**, 2, 1294-1302	17.1	17
23	A chemometric approach for the sensitization procedure of ZnO flowerlike microstructures for dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 11288-95	9.5	71
22	Comparison of Hemi-Squaraine Sensitized TiO2 and ZnO Photoanodes for DSSC Applications. *Journal of Physical Chemistry C*, **2013**, 117, 22778-22783	3.8	26
21	Consistent static and small-signal physics-based modeling of dye-sensitized solar cells under different illumination conditions. *Physical Chemistry Chemical Physics*, **2013**, 15, 14634-46	3.6	9
20	Combined experimental and theoretical investigation of the hemi-squaraine/TiO2 interface for dye sensitized solar cells. *Physical Chemistry Chemical Physics*, **2013**, 15, 7198-203	3.6	30
19	Vertically aligned TiO2 nanotube array for high rate Li-based micro-battery anodes with improved durability. *Electrochimica Acta*, **2013**, 102, 233-239	6.7	41
18	Monitoring the dye impregnation time of nanostructured photoanodes for dye sensitized solar cells. *Journal of Physics: Conference Series*, **2013**, 439, 012012	0.3	6
17	TiO2Nanotube Array as Efficient Transparent Photoanode in Dye-Sensitized Solar Cell with High Electron Lifetime. *Acta Physica Polonica A*, **2013**, 123, 376-379	0.6	5
16	Sponge-like Porous ZnO Photoanodes for Highly Efficient dye-sensitized Solar Cells. *Acta Physica Polonica A*, **2013**, 123, 386-389	0.6	1
15	Fast TiO2Sensitization Using the Semisquaric Acid as Anchoring Group. *International Journal of Photoenergy*, **2013**, 2013, 1-8	2.1	4
14	Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. *Electrochimica Acta*, **2012**, 70, 62-68	6.7	24
13	Microfluidic housing system: a useful tool for the analysis of dye-sensitized solar cell components. *Applied Physics A: Materials Science and Processing*, **2012**, 109, 377-383	2.6	19
12	An easy method for the room-temperature growth of spongelike nanostructured Zn films as initial step for the fabrication of nanostructured ZnO. *Thin Solid Films*, **2012**, 524, 107-112	2.2	26
11	High efficiency dye-sensitized solar cells exploiting sponge-like ZnO nanostructures. *Physical Chemistry Chemical Physics*, **2012**, 14, 16203-8	3.6	70
10	Surface energy tailoring of glass by contact printed PDMS. *Applied Surface Science*, **2012**, 258, 9427-9431	6.7	32

9	Magnetoelastic coupling in multilayered ferroelectric/ferromagnetic thin films: A quantitative evaluation. *Applied Surface Science*, **2012**, 258, 8072-8077	6.7	12
8	Facile fabrication of cuprous oxide nanocomposite anode films for flexible Li-ion batteries via thermal oxidation. *Electrochimica Acta*, **2012**, 86, 323-329	6.7	27
7	Surface label-free sensing by means of a fluorescent multilayered photonic structure. *Applied Physics Letters*, **2012**, 101, 131105	3.4	19
6	Electric Characterization and Modeling of Microfluidic-Based Dye-Sensitized Solar Cell. *International Journal of Photoenergy*, **2012**, 2012, 1-11	2.1	14
5	Solid phase DNA extraction on PDMS and direct amplification. *Lab on A Chip*, **2011**, 11, 4029-35	7.2	37
4	Piezoelectrically actuated MEMS microswitches for high current applications. *Microelectronic Engineering*, **2011**, 88, 2208-2210	2.5	14
3	Microfluidic sealing and housing system for innovative dye-sensitized solar cell architecture. *Microelectronic Engineering*, **2011**, 88, 2308-2310	2.5	40
2	Boosting Electric Double Layer Capacitance in Laser-Induced Graphene-Based Supercapacitors. *Advanced Sustainable Systems*,2100228	5.9	12
1	Enhanced Capacitive Deionization Exploiting Novel Functionalized Graphene Oxide Electrodes. *Advanced Materials Technologies*,2101513	6.8	2