

Luca Valentini M Valentini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5651824/publications.pdf>

Version: 2024-02-01

97
papers

3,351
citations

186265

28
h-index

155660

55
g-index

99
all docs

99
docs citations

99
times ranked

5204
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal and mechanical properties of single-walled carbon nanotubes/polypropylene composites prepared by melt processing. <i>Carbon</i> , 2005, 43, 1499-1505.	10.3	586
2	Processing of nanostructured polymers and advanced polymeric based nanocomposites. <i>Materials Science and Engineering Reports</i> , 2014, 85, 1-46.	31.8	190
3	Crystallization and Melting Behavior of Poly(3-butylthiophene), Poly(3-octylthiophene), and Poly(3-dodecylthiophene). <i>Macromolecules</i> , 2005, 38, 409-415.	4.8	155
4	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. <i>Chemistry of Materials</i> , 2009, 21, 3433-3438.	6.7	151
5	A novel method to prepare conductive nanocrystalline cellulose/graphene oxide composite films. <i>Materials Letters</i> , 2013, 105, 4-7.	2.6	110
6	Novel Anthracene-Core Molecule for the Development of Efficient PCBM-Based Solar Cells. <i>Chemistry of Materials</i> , 2008, 20, 32-34.	6.7	107
7	Use of butylamine modified graphene sheets in polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 995-1000.	6.7	99
8	Tough nanopaper structures based on cellulose nanofibers and carbon nanotubes. <i>Composites Science and Technology</i> , 2013, 87, 103-110.	7.8	94
9	Sidewall functionalization of single-walled carbon nanotubes through CF ₄ plasma treatment and subsequent reaction with aliphatic amines. <i>Chemical Physics Letters</i> , 2005, 403, 385-389.	2.6	92
10	Preparation and characterization of poly (butylene terephthalate)/graphene composites by in-situ polymerization of cyclic butylene terephthalate. <i>Polymer</i> , 2012, 53, 897-902.	3.8	84
11	Synergistic effect of graphene nanoplatelets and carbon black in multifunctional EPDM nanocomposites. <i>Composites Science and Technology</i> , 2016, 128, 123-130.	7.8	78
12	Deposition of amino-functionalized polyhedral oligomeric silsesquioxanes on graphene oxide sheets immobilized onto an amino-silane modified silicon surface. <i>Journal of Materials Chemistry</i> , 2012, 22, 6213.	6.7	73
13	Modification of fluorinated single-walled carbon nanotubes with aminosilane molecules. <i>Carbon</i> , 2006, 44, 2196-2201.	10.3	61
14	Use of plasma fluorinated single-walled carbon nanotubes for the preparation of nanocomposites with epoxy matrix. <i>Composites Science and Technology</i> , 2008, 68, 1008-1014.	7.8	56
15	Nitrile butadiene rubber composites reinforced with reduced graphene oxide and carbon nanotubes show superior mechanical, electrical and icephobic properties. <i>Composites Science and Technology</i> , 2018, 166, 109-114.	7.8	51
16	Transparent and Conductive Graphene Oxide/Poly(ethylene glycol) diacrylate Coatings Obtained by Photopolymerization. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 401-407.	3.6	49
17	Stimuli-responsive polymer hydrogels containing partially exfoliated graphite. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5375-5381.	2.3	48
18	Vacancy-Induced Chemisorption of NO ₂ on Carbon Nanotubes: A Combined Theoretical and Experimental Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13175-13179.	2.6	44

#	ARTICLE	IF	CITATIONS
19	In-situ graphene oxide reduction during UV-photopolymerization of graphene oxide/acrylic resins mixtures. <i>Polymer</i> , 2012, 53, 6039-6044.	3.8	43
20	Cellulose nanocrystals thin films as gate dielectric for flexible organic field-effect transistors. <i>Materials Letters</i> , 2014, 126, 55-58.	2.6	38
21	Graphene and Carbon Nanotube Auxetic Rubber Bionic Composites with Negative Variation of the Electrical Resistance and Comparison with Their Nonbionic Counterparts. <i>Advanced Functional Materials</i> , 2017, 27, 1606526.	14.9	38
22	Chemorheological behaviour of double-walled carbon nanotube-epoxy nanocomposites. <i>Composites Science and Technology</i> , 2008, 68, 1862-1868.	7.8	35
23	Nonvolatile memory behavior of nanocrystalline cellulose/graphene oxide composite films. <i>Applied Physics Letters</i> , 2014, 105, 153111.	3.3	35
24	Preparation of extended alkylated graphene oxide conducting layers and effect study on the electrical properties of PEDOT:PSS polymer composites. <i>Chemical Physics Letters</i> , 2010, 494, 264-268.	2.6	34
25	Severe graphene nanoplatelets aggregation as building block for the preparation of negative temperature coefficient and healable silicone rubber composites. <i>Composites Science and Technology</i> , 2016, 134, 125-131.	7.8	31
26	Preparation of transparent and conductive cellulose nanocrystals/graphene nanoplatelets films. <i>Journal of Materials Science</i> , 2014, 49, 1009-1013.	3.7	30
27	Graphene-Based Bionic Composites with Multifunctional and Repairing Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7607-7612.	8.0	30
28	45S5 Bioglass®-derived scaffolds coated with organic-inorganic hybrids containing graphene. <i>Materials Science and Engineering C</i> , 2013, 33, 3592-3600.	7.3	29
29	Synthesis and photoelectrical properties of carbon nanotube-dendritic porphyrin light harvesting molecule systems. <i>Diamond and Related Materials</i> , 2007, 16, 658-663.	3.9	28
30	Surfactant assisted selective confinement of carbon nanotubes functionalized with octadecylamine in a poly(styrene-b-isoprene-b-styrene) block copolymer matrix. <i>Carbon</i> , 2009, 47, 2474-2480.	10.3	28
31	[2.2]Paracyclophanes incorporated within poly(3-butylthiophene): synthesis and photoelectrical properties. <i>New Journal of Chemistry</i> , 2006, 30, 939.	2.8	25
32	Preparation of Alginate/Graphene Oxide Hybrid Films and Their Integration in Triboelectric Generators. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 1192-1197.	2.0	25
33	Printable smart 3D architectures of regenerated silk on poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Materials and Design</i> , 2021, 201, 109492.	7.0	24
34	Formation of unzipped carbon nanotubes by CF4 plasma treatment. <i>Diamond and Related Materials</i> , 2011, 20, 445-448.	3.9	23
35	Mapping of carbon nanotubes in the polystyrene domains of a polystyrene-b-polyisoprene-b-polystyrene block copolymer matrix using electrostatic force microscopy. <i>Carbon</i> , 2010, 48, 2590-2595.	10.3	22
36	Wettability and switching of electrical conductivity in UV irradiated graphene oxide films. <i>Diamond and Related Materials</i> , 2011, 20, 871-874.	3.9	21

#	ARTICLE	IF	CITATIONS
37	Pyroshock testing on graphene based EPDM nanocomposites. <i>Composites Part B: Engineering</i> , 2014, 60, 479-484.	12.0	21
38	Fermentation based carbon nanotube multifunctional bionic composites. <i>Scientific Reports</i> , 2016, 6, 27031.	3.3	21
39	Electrodeposited carbon nanotubes as template for the preparation of semi-transparent conductive thin films by in situ polymerization of methyl methacrylate. <i>Carbon</i> , 2007, 45, 2685-2691.	10.3	20
40	POSS vapor grafting on graphene oxide film. <i>Chemical Physics Letters</i> , 2012, 537, 84-87.	2.6	20
41	Flexible triboelectric generator and pressure sensor based on poly[(<i>l</i> -lysine)- <i>l</i> -glutamic acid] biopolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 859-863.	2.1	20
42	Self-Assembly of Photoresponsive [2.2]Paracyclophane-Derivative Nanostripes on a Conducting Surface with Modified Wettability. <i>Small</i> , 2007, 3, 1200-1203.	10.0	19
43	Anisotropic Electrical Transport Properties of Aligned Carbon Nanotube/PMMA Films Obtained by Electric-Field-Assisted Thermal Annealing. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 867-871.	3.6	19
44	The Impact of Shear and Elongational Forces on Structural Formation of Polyacrylonitrile/Carbon Nanotubes Composite Fibers during Wet Spinning Process. <i>Materials</i> , 2019, 12, 2797.	2.9	19
45	Radiofrequency plasma assisted exfoliation and reduction of large-area graphene oxide platelets produced by a mechanical transfer process. <i>Chemical Physics Letters</i> , 2011, 508, 285-288.	2.6	18
46	A Photoresponsive Hybrid Nanomaterial Based on Graphene and Polyhedral Oligomeric Silsesquioxanes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5282-5287.	2.0	18
47	Biomimetic Tendrils by Four Dimensional Printing Bimorph Springs with Torsion and Contraction Properties Based on Bio-Compatible Graphene/Silk Fibroin and Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate). <i>Advanced Functional Materials</i> , 2021, 31, 2105665.	14.9	18
48	Chemical gating and photoconductivity of CF ₄ plasma-functionalized single-walled carbon nanotubes with adsorbed butylamine. <i>Journal of Applied Physics</i> , 2005, 97, 114320.	2.5	17
49	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11252-11257.	3.1	17
50	Combining Living Microorganisms with Regenerated Silk Provides Nanofibril-Based Thin Films with Heat-Responsive Wrinkled States for Smart Food Packaging. <i>Nanomaterials</i> , 2018, 8, 518.	4.1	17
51	Carbon Nanotubes/Regenerated Silk Composite as a Three-Dimensional Printable Bio-Adhesive Ink with Self-Powering Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21007-21017.	8.0	17
52	Selective interaction of single-walled carbon nanotubes with conducting dendrimer. <i>Diamond and Related Materials</i> , 2006, 15, 95-99.	3.9	16
53	Graphene based composites prepared through exfoliation of graphite platelets in methyl methacrylate/poly(methyl methacrylate). <i>Polymer International</i> , 2012, 61, 1079-1083.	3.1	16
54	Multilayer films composed of conductive poly(3-hydroxybutyrate)/carbon nanotubes bionanocomposites and a photoresponsive conducting polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 596-602.	2.1	16

#	ARTICLE	IF	CITATIONS
55	A new terpyridine tethered polythiophene: Electrosynthesis and characterization. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3513-3523.	2.3	15
56	Processing and functionalization effect in CNF/PMMA nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 711-721.	7.6	15
57	Bioncomposites. <i>Nanoscale</i> , 2019, 11, 3102-3111.	5.6	15
58	3D Printing Silk-Based Bioresorbable Piezoelectric Self-Adhesive Holey Structures for <i>In Vivo</i> Monitoring on Soft Tissues. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19253-19264.	8.0	15
59	Electrically switchable carbon nanotubes hydrophobic surfaces. <i>Diamond and Related Materials</i> , 2005, 14, 121-124.	3.9	14
60	Enhancement of photoelectrical properties in polymer nanocomposites containing modified single-walled carbon nanotubes by conducting dendrimer. <i>Journal of Applied Physics</i> , 2006, 99, 114305.	2.5	14
61	Patterning of [2.2]paracyclophane derivative modified single-walled carbon nanotubes through grid-assisted deposition. <i>Journal of Materials Chemistry</i> , 2008, 18, 484-488.	6.7	14
62	3-D-Printing-Based Selective-Ink-Deposition Technique Enabling Complex Antenna and RF Structures for 5G Applications up to 6 GHz. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 1434-1447.	2.5	14
63	Anisotropic Electrical Transport Properties of Graphene Nanoplatelets/Pyrene Composites by Electric-Field-Assisted Thermal Annealing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16652-16656.	3.1	13
64	Multistimuli-responsive hydrogels of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) containing graphene. <i>Colloid and Polymer Science</i> , 2013, 291, 2681-2687.	2.1	13
65	Self-Adhesive plasticized regenerated silk on poly(3-hydroxybutyrate-co-3-hydroxyvalerate) for bio-piezoelectric force sensor and microwave circuit design. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49726.	2.6	13
66	Solution casting of transparent and conductive carbon nanotubes/poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) films under a magnetic field. <i>Carbon</i> , 2008, 46, 1513-1517.	10.3	11
67	Liquid Droplet excitation of freestanding poly(methyl methacrylate)/graphene oxide films for mechanical energy harvesting. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1028-1032.	2.1	11
68	Hot press transferring of graphene nanoplatelets on polyurethane block copolymers film for electroactive shape memory devices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1100-1106.	2.1	11
69	Effects of dielectric barrier discharge in air on morphological and electrical properties of graphene nanoplatelets and multi-walled carbon nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 858-868.	4.0	11
70	Microorganism Nutrition Processes as a General Route for the Preparation of Bionic Nanocomposites Based on Intractable Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22714-22720.	8.0	11
71	Development of conductive paraffin/graphene films laminated on fluoroelastomers with high strain recovery and anti-corrosive properties. <i>Composites Science and Technology</i> , 2017, 149, 254-261.	7.8	11
72	Flexible Transistors Exploiting P3HT on Paper Substrate and Graphene Oxide Film as Gate Dielectric: Proof of Concept. <i>Science of Advanced Materials</i> , 2013, 5, 530-533.	0.7	11

#	ARTICLE	IF	CITATIONS
73	Interaction of oxygen with nanocomposites made of n-type conducting polymers and carbon nanotubes: role of charge transfer complex formation between nanotubes and poly(3-octylthiophene). <i>Thin Solid Films</i> , 2005, 476, 162-167.	1.8	9
74	Emerging methods for producing graphene oxide composites in coatings with multifunctional properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 21355.	6.7	9
75	Bio-inspired materials and graphene for electronic applications. <i>Materials Letters</i> , 2015, 148, 204-207.	2.6	9
76	Poly(methyl methacrylate)/Graphene Oxide Layered Films as Generators for Mechanical Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3770-3775.	8.0	8
77	Silkworm silk fibers vs PEEK reinforced rubber luminescent strain gauge and stretchable composites. <i>Composites Science and Technology</i> , 2018, 156, 254-261.	7.8	8
78	Mechanical characterization and induced crystallization in nanocomposites of thermoplastics and carbon nanotubes. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	8
79	Plasticised Regenerated Silk/Gold Nanorods Hybrids as Sealant and Bio-Piezoelectric Materials. <i>Nanomaterials</i> , 2020, 10, 179.	4.1	8
80	Stretchable, Bio-Compatible, Antioxidant and Self-Powering Adhesives from Soluble Silk Fibroin and Vegetal Polyphenols Exfoliated Graphite. <i>Nanomaterials</i> , 2021, 11, 2352.	4.1	8
81	Electrodeposition of carbon nanotube semi-transparent thin films: A facile route for preparing photoactive polymeric hybrid materials. <i>Diamond and Related Materials</i> , 2008, 17, 1573-1576.	3.9	7
82	Fabrication of three-dimensional patterns of reduced graphene oxide through grid-assisted deposition. <i>Materials Letters</i> , 2015, 157, 265-268.	2.6	7
83	Free-Standing Graphene Oxide and Carbon Nanotube Hybrid Papers with Enhanced Electrical and Mechanical Performance and Their Synergy in Polymer Laminates. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8585.	4.1	7
84	New anthracene-containing phenylene- or thienylene-vinylene copolymers: Synthesis, characterization, photophysics, and photovoltaics. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1173-1181.	2.6	6
85	Electrical and morphological characterization of multiwalled carbon nanotubes functionalized via the Bingel reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 83, 121-134.	4.0	5
86	Regenerated Silk and Carbon Nanotubes Dough as Masterbatch for High Content Filled Nanocomposites. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	5
87	Engineering Graphene Oxide/Water Interface from First Principles to Experiments for Electrostatic Protective Composites. <i>Polymers</i> , 2020, 12, 1596.	4.5	5
88	Transfer writing of foldable graphene nanoplatelet patterns on paper substrates. <i>Materials Letters</i> , 2013, 113, 54-58.	2.6	4
89	Ice-regenerated flame retardant and robust film of <i>Bombyx mori</i> silk fibroin and POSS nano-cages. <i>RSC Advances</i> , 2018, 8, 9063-9069.	3.6	3
90	Rubber Nanocomposites for Extreme Environments: Critics and Counterintuitive Solutions. <i>Frontiers in Materials</i> , 2018, 5, .	2.4	3

#	ARTICLE	IF	CITATIONS
91	Realization of porous poly(methyl methacrylate) films filled with electrodeposited carbon nanotubes. Nanotechnology, 2008, 19, 295301.	2.6	2
92	Organized fluidic assembly of single-walled carbon nanotubes onto fluorine-doped tin-oxide surface with modified wettability. Carbon, 2008, 46, 372-375.	10.3	1
93	Bionic Superfibers. , 2019, , 431-443.		1
94	Probing the Sequestering of Carbon Nanotubes in the PS Domains of SIS Block Copolymer Matrix using Electrostatic Force Microscopy. , 2010, , .		0
95	Plasma etching of polystyrene latex particles for the preparation of graphene oxide nanowalls. Journal of the Serbian Chemical Society, 2012, 77, 1701-1707.	0.8	0
96	LIGHT INDUCED CHANGE IN CONDUCTIVITY OF GRAPHENE OXIDE FILMS PATTERNED BY METAL MASKS. Functional Materials Letters, 2012, 05, 1250034.	1.2	0
97	Conductive elastomer engineering in extreme environments. , 2020, , 235-255.		0