Anna Borriello

List of Publications by Year
in descending order

86 papers	1,712 citations	279487 23 h-index	301761 39 g-index
87 all docs	87 docs citations	87 times ranked	2353 citing authors

#	Article	IF	Citations
1	Cellulose Amphiphilic Materials: Chemistry, Process and Applications. Pharmaceutics, 2022, 14, 386.	2.0	20
2	Polydopamine-Coated Poly-Lactic Acid Aerogels as Scaffolds for Tissue Engineering Applications. Molecules, 2022, 27, 2137.	1.7	7
3	Nanoporousâ€“Crystalline Poly(2,6-dimethyl-1,4-phenylene)oxide Aerogels with Selectively Sulfonated Amorphous Phase for Fast VOC Sorption from Water. Materials, 2022, 15, 1947.	1.3	3
4	In-Depth Analysis of the High Strain Rate Compressive Behavior of RTM6 Epoxy Using Digital Image Correlation. Polymers, 2022, 14, 1771.	2.0	2
5	Effect of SiO2@polydopamine core/shell nanoparticles as multifunctional filler for an aeronautical epoxy resin. Materials Today: Proceedings, 2021, 34, 117-120.	0.9	5
6	Design of Biofunctional Platforms: Differently Processed Biomaterials with Polydopamine Coating. Lecture Notes in Electrical Engineering, 2021, , 17-23.	0.3	0
7	Polyaniline nano-needles into electrospun bio active fibres support in vitro astrocyte response. RSC Advances, 2021, 11, 11347-11355.	1.7	6
8	Basalt Fibre Composite with Carbon Nanomodified Epoxy Matrix under Hydrothermal Ageing. Polymers, 2021, 13, 532.	2.0	12
9	Effect of Strain Rate and Silica Filler Content on the Compressive Behavior of RTM6 Epoxy-Based Nanocomposites. Polymers, 2021, 13, 3735.	2.0	7
10	A Customized Knee Antibiotic-Loaded PMMA Spacer: A Pre-Liminary Design Analysis. Polymers, 2021, 13, 4065.	2.0	1
11	Production of biodegradable superabsorbent aerogels using a supercritical CO2 assisted drying. Journal of Supercritical Fluids, 2020, 156, 104681.	1.6	33
12	Self-associating cellulose-graft-poly(Îµ-caprolactone) to design nanoparticles for drug release. Materials Science and Engineering C, 2020, 108, 110385.	3.8	24
13	Advanced organic electroactive nanomaterials for biomedical use. , 2020, , 141-165.		4
14	Thermal and Mechanical Characterization of an Aeronautical Graded Epoxy Resin Loaded with Hybrid Nanoparticles. Nanomaterials, 2020, 10, 1388.	1.9	22
15	Optimization of Polydopamine Coatings onto Polyâ€“Îµâ€“Caprolactone Electrospun Fibers for the Fabrication of Bio-Electroconductive Interfaces. Journal of Functional Biomaterials, 2020, 11, 19.	1.8	15
16	Aromatic Hyperbranched Polyester/RTM6 Epoxy Resin for EXTREME Dynamic Loading Aeronautical Applications. Nanomaterials, 2020, 10, 188.	1.9	16
17	Hydrothermal Aging of an Epoxy Resin Filled with Carbon Nanofillers. Polymers, 2020, 12, 1153.	2.0	23
18	Survey data on thermal properties of different hyperbranched polymers (HBPs) and on morphological and thermal analysis of the corresponding epoxy matrix nanocomposites. Data in Brief, 2019, 25, 104303.	0.5	5

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19	Cyclic Moisture Sorption and its Effects on the Thermomechanical Properties of Epoxy and Epoxy/MWCNT Nanocomposite. Polymers, 2019, 11, 1383.	2.0	14
20	Thermal Properties and Fracture Toughness of Epoxy Nanocomposites Loaded with Hyperbranched-Polymers-Based Core/Shell Nanoparticles. Nanomaterials, 2019, 9, 418.	1.9	30
21	The effect of glassy and rubbery hyperbranched polymers as modifiers in epoxy aeronautical systems. Composites Part B: Engineering, 2019, 169, 88-95.	5.9	18
22	Single-Ended Long Period Fiber Grating Coated With Polystyrene Thin Film for Butane Gas Sensing. Journal of Lightwave Technology, 2018, 36, 825-832.	2.7	40
23	Effects of 1D and 2D nanofillers in basalt/poly(lactic acid) composites for additive manufacturing. Composites Part B: Engineering, 2018, 153, 364-375.	5.9	23
24	Liquefied Petroleum Gas Monitoring System Based on Polystyrene Coated Long Period Grating. Sensors, 2018, 18, 1435.	2.1	14
25	Mechanical behavior of hybrid fiberâ€reinforced composites manufactured by pulse infusion. Polymer Composites, 2017, 38, 2254-2260.	2.3	4
26	Self-Assembled Colloidal Photonic Crystal on the Fiber Optic Tip as a Sensing Probe. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	20
27	Potential contact and intraocular lenses based on hydrophilic/hydrophobic sulfonated syndiotactic polystyrene membranes. Journal of King Saud University - Science, 2017, 29, 487-493.	1.6	4
28	Label-free fiber optic optrode for the detection of class C Î²-lactamases expressed by drug resistant bacteria. Biomedical Optics Express, 2017, 8, 5191.	1.5	25
29	Electro-Active Polymers (EAPs): A Promising Route to Design Bio-Organic/Bioinspired Platforms with on Demand Functionalities. Polymers, 2016, 8, 185.	2.0	59
30	Long period fiber grating working in reflection mode as valuable biosensing platform for the detection of drug resistant bacteria. Sensors and Actuators B: Chemical, 2016, 230, 510-520.	4.0	35
31	Nanoporous Semicrystalline Syndiotactic Polystyrene with Sulfonated Amorphous Phase, for a Fast and Efficient Removal of VOC Pollutant Traces From Water. Macromolecular Symposia, 2016, 359, 16-23.	0.4	1
32	Long period fiber grating nano-optrode for cancer biomarker detection. Biosensors and Bioelectronics, 2016, 80, 590-600.	5.3	79
33	Cryogenic-temperature profiling of high-power superconducting lines using local and distributed optical-fiber sensors. Optics Letters, 2015, 40, 4424.	1.7	38
34	Monolithic Polymeric Aerogels with VOCs Sorbent Nanoporous Crystalline and Water Sorbent Amorphous Phases. ACS Applied Materials & Interfaces, 2015, 7, 1318-1326.	4.0	28
35	Effects of sepiolite clay on degradation and fire behaviour of a bisphenol A-based epoxy. Composites Part B: Engineering, 2015, 73, 139-148.	5.9	56
36	Fabrication and characterization of metal-core carbon-shell nanoparticles filling an aeronautical composite matrix. European Polymer Journal, 2015, 71, 140-151.	2.6	17

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37	Optical aliphatic hydrocarbon gas sensor based on Titanium Dioxide thin film. , 2015, , .		1
38	Polyaniline proton doping for sensor application. , 2015, , .		4
39	Lab-on-Fiber biosensing for cancer biomarker detection. Proceedings of SPIE, 2015, , .	0.8	5
40	Reflection-type long period grating biosensor for detection of drug resistant bacteria: the OptoBacteria project. , 2015, , .		2
41	Bioinspired design of material with magneto optic coupling for electromagnetic sensing. , 2015, , .		0
42	High sensitive reflection type long period fiber grating biosensor for real time detection of thyroglobulin, a differentiated thyroid cancer biomarker: the Smart Health project. , 2015, , .		0
43	A Comparative Study of Radiation-Tolerant Fiber Optic Sensors for Relative Humidity Monitoring in High-Radiation Environments at CERN. IEEE Photonics Journal, 2014, 6, 1-15.	1.0	23
44	Graphene oxide-based nanohybrid for label-free optical sensing. , 2014, , .		1
45	Photoluminescence of Graphene Oxide Infiltrated into Mesoporous Silicon. Journal of Physical Chemistry C, 2014, 118, 27301-27307.	1.5	24
46	Reflection-type long period grating biosensor for the detection of drug resistant bacteria: The Opto-bacteria Project. , 2014, , .		0
47	High-sensitivity humidity sensors based on TiO2-coated long period fiber grating for high-energy physics applications. , 2014, , .		0
48	High-sensitivity metal oxides-coated long-period fiber grating sensors for humidity monitoring in high-energy physics applications. Proceedings of SPIE, 2014, , .	0.8	5
49	Long period fiber grating biosensor for the detection of drug resistant bacteria: The “OPTObacteria” project. , 2014, , .		2
50	Radiation tolerant humidity sensors based on nano-scale TiO<inf>2</inf>-coated LPGs for high-energy physics applications. , 2014, , .		0
51	Effect of sepiolite filler on mechanical behaviour of a bisphenol A-based epoxy system. Composites Part B: Engineering, 2014, 67, 400-409.	5.9	30
52	Nanoscale TiO_2-coated LPGs as radiation-tolerant humidity sensors for high-energy physics applications. Optics Letters, 2014, 39, 4128.	1.7	39
53	Fiber optic sensors for relative humidity monitoring in High Energy Physics applications. , 2014, , .		0
54	Nanochemical fabrication of a graphene oxide-based nanohybrid for label-free optical sensing with fiber optics. Sensors and Actuators B: Chemical, 2014, 202, 523-526.	4.0	32

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55	Porphyrin thin films on fiber optic probes through UV-light induced deposition. Optics and Laser Technology, 2013, 49, 279-283.	2.2	4
56	Hyperbranched polymers as modifiers of epoxy adhesives. Composites Part B: Engineering, 2013, 53, 187-192.	5.9	55
57	Conductive PANi/PEGDA Macroporous Hydrogels For Nerve Regeneration. Advanced Healthcare Materials, 2013, 2, 218-227.	3.9	182
58	Porphyrin coated fiber optic probes for acid vapor detection. Proceedings of SPIE, 2013, , .	0.8	1
59	Metal-mediated self-assembly of tetrapyridyl porphyrins by Na+ ions. Chemical Communications, 2012, 48, 5136.	2.2	8
60	A protein-based biointerfacing route toward label-free immunoassays with long period gratings in transition mode. Biosensors and Bioelectronics, 2012, 31, 486-491.	5.3	38
61	Proton Conductivity and Methanol Permeability of Sulfonated Syndiotactic Polystyrene Membranes. Soft Materials, 2011, 9, 224-237.	0.8	2
62	Transition mode long period grating biosensor with functional multilayer coatings. Optics Express, 2011, 19, 512.	1.7	54
63	Optimizing PANi doped electroactive substrates as patches for the regeneration of cardiac muscle. Journal of Materials Science: Materials in Medicine, 2011, 22, 1053-1062.	1.7	164
64	Semicrystalline proton-conductive membranes with sulfonated amorphous phases. International Journal of Hydrogen Energy, 2011, 36, 8038-8044.	3.8	11
65	Self Assembling and Coordination of Water Nano-Layers On Polymer Coated Long Period Gratings: Toward New Perspectives for Cation Detection. Soft Materials, 2011, 9, 238-263.	0.8	7
66	Functional multilayer coated long period grating tuned in transition region for life science applications. Proceedings of SPIE, 2010, , .	0.8	0
67	Self-assembling and coordination of water nano-layers on polymeric coated long period gratings as promising tool for cation detection. Proceedings of SPIE, 2010, , .	0.8	1
68	Current fluctuations in polystyrene nano-compounds. European Physical Journal B, 2010, 73, 207-210.	0.6	1
69	Selective surface modification of syndiotactic polystyrene films: A study by Fourier transform- and confocal-Raman spectroscopy. European Polymer Journal, 2010, 46, 1004-1015.	2.6	11
70	Influence of fillers concentration on electrical properties of polystyrene matrix doped by gold nanoparticles and 8HQ. European Physical Journal B, 2009, 72, 113-118.	0.6	3
71	Syndiotactic Polystyrene Films with Sulfonated Amorphous Phase and Nanoporous Crystalline Phase. Chemistry of Materials, 2009, 21, 3191-3196.	3.2	38
72	Electrical Bistability in Conductive Hybrid Composites of Doped Polyaniline Nanofibers-Gold Nanoparticles Capped with Dodecane Thiol. Journal of Nanoscience and Nanotechnology, 2009, 9, 6307-6314.	0.9	6

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73	Control of morphology of sulfonated syndioâ€polystyrene membranes through constraints imposed by siloxane networks. Polymer Engineering and Science, 2008, 48, 2389-2399.	1.5	12
74	ELECTRICAL PROPERTIES OF POLYSTYRENE MATRIX DOPED BY GOLD NANOPARTICLES AND 8HQ. AIP Conference Proceedings, 2008, , .	0.3	2
75	Synthesis of poly(amide-ester)s by microwave methods. Journal of Applied Polymer Science, 2007, 103, 1952-1958.	1.3	18
76	Poly(amide-ester)s derived from dicarboxylic acid and aminoalcohol. Journal of Applied Polymer Science, 2005, 95, 362-368.	1.3	10
77	Probing the degree of crosslinking of a cellulose based superabsorbing hydrogel through traditional and NMR techniques. Polymer, 2003, 44, 1577-1588.	1.8	63
78	Polyelectrolyte Membranes Based on Sulfonated Syndiotactic Polystyrene in Its Clathrate Form. Macromolecular Symposia, 2001, 169, 293-302.	0.4	4
79	Isotactic 1-butene polymerization promoted by C2-symmetric metallocene catalysts. Macromolecular Chemistry and Physics, 1997, 198, 1257-1270.	1.1	16
80	Conformational and Packing Energy Calculations for Isotactic Poly(vinylcyclohexane):â€‰ Crystal Structure of Form I. Macromolecules, 1996, 29, 6323-6327.	2.2	18
81	Polymerization of 3-methyl-1-butene promoted by metallocene catalysts. Macromolecular Rapid Communications, 1996, 17, 589-597.	2.0	19
82	Regiospecificity of 1-butene polymerization catalyzed by C2-symmetric group IV metallocenes. Macromolecular Rapid Communications, 1995, 16, 269-274.	2.0	16
83	13C CP/MAS NMR Analysis of Isotactic Poly(3-methyl-1-butene). Macromolecules, 1995, 28, 5679-5680.	2.2	9
84	Crystal Structure of Form III and the Polymorphism of Isotactic Poly(4-methylpentene-1). Macromolecules, 1994, 27, 3864-3868.	2.2	34
85	Sul polimorfismo del poli(4-metil-1-pentene) isotattico. Rendiconti Lincei, 1993, 4, 99-106.	1.0	1
86	Fracture Toughening Mechanisms in Epoxy Adhesives. , 0, , .		18