

# Anna Borriello

## List of Publications by Year in descending order

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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	Conductive PANi/PEGDA Macroporous Hydrogels For Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2013, 2, 218-227.	3.9	182
2	Optimizing PANi doped electroactive substrates as patches for the regeneration of cardiac muscle. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1053-1062.	1.7	164
3	Long period fiber grating nano-optrode for cancer biomarker detection. <i>Biosensors and Bioelectronics</i> , 2016, 80, 590-600.	5.3	79
4	Probing the degree of crosslinking of a cellulose based superabsorbing hydrogel through traditional and NMR techniques. <i>Polymer</i> , 2003, 44, 1577-1588.	1.8	63
5	Electro-Active Polymers (EAPs): A Promising Route to Design Bio-Organic/Bioinspired Platforms with on Demand Functionalities. <i>Polymers</i> , 2016, 8, 185.	2.0	59
6	Effects of sepiolite clay on degradation and fire behaviour of a bisphenol A-based epoxy. <i>Composites Part B: Engineering</i> , 2015, 73, 139-148.	5.9	56
7	Hyperbranched polymers as modifiers of epoxy adhesives. <i>Composites Part B: Engineering</i> , 2013, 53, 187-192.	5.9	55
8	Transition mode long period grating biosensor with functional multilayer coatings. <i>Optics Express</i> , 2011, 19, 512.	1.7	54
9	Single-Ended Long Period Fiber Grating Coated With Polystyrene Thin Film for Butane Gas Sensing. <i>Journal of Lightwave Technology</i> , 2018, 36, 825-832.	2.7	40
10	Nanoscale TiO <sub>2</sub> -coated LPGs as radiation-tolerant humidity sensors for high-energy physics applications. <i>Optics Letters</i> , 2014, 39, 4128.	1.7	39
11	Syndiotactic Polystyrene Films with Sulfonated Amorphous Phase and Nanoporous Crystalline Phase. <i>Chemistry of Materials</i> , 2009, 21, 3191-3196.	3.2	38
12	A protein-based biointerfacing route toward label-free immunoassays with long period gratings in transition mode. <i>Biosensors and Bioelectronics</i> , 2012, 31, 486-491.	5.3	38
13	Cryogenic-temperature profiling of high-power superconducting lines using local and distributed optical-fiber sensors. <i>Optics Letters</i> , 2015, 40, 4424.	1.7	38
14	Long period fiber grating working in reflection mode as valuable biosensing platform for the detection of drug resistant bacteria. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 510-520.	4.0	35
15	Crystal Structure of Form III and the Polymorphism of Isotactic Poly(4-methylpentene-1). <i>Macromolecules</i> , 1994, 27, 3864-3868.	2.2	34
16	Production of biodegradable superabsorbent aerogels using a supercritical CO <sub>2</sub> assisted drying. <i>Journal of Supercritical Fluids</i> , 2020, 156, 104681.	1.6	33
17	Nanochemical fabrication of a graphene oxide-based nanohybrid for label-free optical sensing with fiber optics. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 523-526.	4.0	32
18	Effect of sepiolite filler on mechanical behaviour of a bisphenol A-based epoxy system. <i>Composites Part B: Engineering</i> , 2014, 67, 400-409.	5.9	30

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19	Thermal Properties and Fracture Toughness of Epoxy Nanocomposites Loaded with Hyperbranched-Polymers-Based Core/Shell Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 418.	1.9	30
20	Monolithic Polymeric Aerogels with VOCs Sorbent Nanoporous Crystalline and Water Sorbent Amorphous Phases. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1318-1326.	4.0	28
21	Label-free fiber optic optrode for the detection of class C $\beta$ -lactamases expressed by drug resistant bacteria. <i>Biomedical Optics Express</i> , 2017, 8, 5191.	1.5	25
22	Photoluminescence of Graphene Oxide Infiltrated into Mesoporous Silicon. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27301-27307.	1.5	24
23	Self-associating cellulose-graft-poly( $\mu$ -caprolactone) to design nanoparticles for drug release. <i>Materials Science and Engineering C</i> , 2020, 108, 110385.	3.8	24
24	A Comparative Study of Radiation-Tolerant Fiber Optic Sensors for Relative Humidity Monitoring in High-Radiation Environments at CERN. <i>IEEE Photonics Journal</i> , 2014, 6, 1-15.	1.0	23
25	Effects of 1D and 2D nanofillers in basalt/poly(lactic acid) composites for additive manufacturing. <i>Composites Part B: Engineering</i> , 2018, 153, 364-375.	5.9	23
26	Hydrothermal Aging of an Epoxy Resin Filled with Carbon Nanofillers. <i>Polymers</i> , 2020, 12, 1153.	2.0	23
27	Thermal and Mechanical Characterization of an Aeronautical Graded Epoxy Resin Loaded with Hybrid Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1388.	1.9	22
28	Self-Assembled Colloidal Photonic Crystal on the Fiber Optic Tip as a Sensing Probe. <i>IEEE Photonics Journal</i> , 2017, 9, 1-11.	1.0	20
29	Cellulose Amphiphilic Materials: Chemistry, Process and Applications. <i>Pharmaceutics</i> , 2022, 14, 386.	2.0	20
30	Polymerization of 3-methyl-1-butene promoted by metallocene catalysts. <i>Macromolecular Rapid Communications</i> , 1996, 17, 589-597.	2.0	19
31	Conformational and Packing Energy Calculations for Isotactic Poly(vinylcyclohexane): Crystal Structure of Form I. <i>Macromolecules</i> , 1996, 29, 6323-6327.	2.2	18
32	Synthesis of poly(amide-ester)s by microwave methods. <i>Journal of Applied Polymer Science</i> , 2007, 103, 1952-1958.	1.3	18
33	Fracture Toughening Mechanisms in Epoxy Adhesives. , 0, , .		18
34	The effect of glassy and rubbery hyperbranched polymers as modifiers in epoxy aeronautical systems. <i>Composites Part B: Engineering</i> , 2019, 169, 88-95.	5.9	18
35	Fabrication and characterization of metal-core carbon-shell nanoparticles filling an aeronautical composite matrix. <i>European Polymer Journal</i> , 2015, 71, 140-151.	2.6	17
36	Regiospecificity of 1-butene polymerization catalyzed by C <sub>2</sub> -symmetric group IV metallocenes. <i>Macromolecular Rapid Communications</i> , 1995, 16, 269-274.	2.0	16

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37	Isotactic 1-butene polymerization promoted by C2-symmetric metallocene catalysts. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 1257-1270.	1.1	16
38	Aromatic Hyperbranched Polyester/RTM6 Epoxy Resin for EXTREME Dynamic Loading Aeronautical Applications. <i>Nanomaterials</i> , 2020, 10, 188.	1.9	16
39	Optimization of Polydopamine Coatings onto Polyε-caprolactone Electrospun Fibers for the Fabrication of Bio-Electroconductive Interfaces. <i>Journal of Functional Biomaterials</i> , 2020, 11, 19.	1.8	15
40	Liquefied Petroleum Gas Monitoring System Based on Polystyrene Coated Long Period Grating. <i>Sensors</i> , 2018, 18, 1435.	2.1	14
41	Cyclic Moisture Sorption and its Effects on the Thermomechanical Properties of Epoxy and Epoxy/MWCNT Nanocomposite. <i>Polymers</i> , 2019, 11, 1383.	2.0	14
42	Control of morphology of sulfonated syndiotactic polystyrene membranes through constraints imposed by siloxane networks. <i>Polymer Engineering and Science</i> , 2008, 48, 2389-2399.	1.5	12
43	Basalt Fibre Composite with Carbon Nanomodified Epoxy Matrix under Hydrothermal Ageing. <i>Polymers</i> , 2021, 13, 532.	2.0	12
44	Selective surface modification of syndiotactic polystyrene films: A study by Fourier transform- and confocal-Raman spectroscopy. <i>European Polymer Journal</i> , 2010, 46, 1004-1015.	2.6	11
45	Semicyrystalline proton-conductive membranes with sulfonated amorphous phases. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8038-8044.	3.8	11
46	Poly(amide-ester)s derived from dicarboxylic acid and aminoalcohol. <i>Journal of Applied Polymer Science</i> , 2005, 95, 362-368.	1.3	10
47	<sup>13</sup> C CP/MAS NMR Analysis of Isotactic Poly(3-methyl-1-butene). <i>Macromolecules</i> , 1995, 28, 5679-5680.	2.2	9
48	Metal-mediated self-assembly of tetrapyrrolyl porphyrins by Na <sup>+</sup> ions. <i>Chemical Communications</i> , 2012, 48, 5136.	2.2	8
49	Self Assembling and Coordination of Water Nano-Layers On Polymer Coated Long Period Gratings: Toward New Perspectives for Cation Detection. <i>Soft Materials</i> , 2011, 9, 238-263.	0.8	7
50	Effect of Strain Rate and Silica Filler Content on the Compressive Behavior of RTM6 Epoxy-Based Nanocomposites. <i>Polymers</i> , 2021, 13, 3735.	2.0	7
51	Polydopamine-Coated Poly-Lactic Acid Aerogels as Scaffolds for Tissue Engineering Applications. <i>Molecules</i> , 2022, 27, 2137.	1.7	7
52	Electrical Bistability in Conductive Hybrid Composites of Doped Polyaniline Nanofibers-Gold Nanoparticles Capped with Dodecane Thiol. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6307-6314.	0.9	6
53	Polyaniline nano-needles into electrospun bio active fibres support in vitro astrocyte response. <i>RSC Advances</i> , 2021, 11, 11347-11355.	1.7	6
54	High-sensitivity metal oxides-coated long-period fiber grating sensors for humidity monitoring in high-energy physics applications. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5

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55	Lab-on-Fiber biosensing for cancer biomarker detection. Proceedings of SPIE, 2015, , .	0.8	5
56	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
57	Effect of SiO <sub>2</sub> @polydopamine core/shell nanoparticles as multifunctional filler for an aeronautical epoxy resin. Materials Today: Proceedings, 2021, 34, 117-120.	0.9	5
58	Polyelectrolyte Membranes Based on Sulfonated Syndiotactic Polystyrene in Its Clathrate Form. Macromolecular Symposia, 2001, 169, 293-302.	0.4	4
59	Porphyrin thin films on fiber optic probes through UV-light induced deposition. Optics and Laser Technology, 2013, 49, 279-283.	2.2	4
60	Polyaniline proton doping for sensor application. , 2015, , .		4
61	Mechanical behavior of hybrid fiber-reinforced composites manufactured by pulse infusion. Polymer Composites, 2017, 38, 2254-2260.	2.3	4
62	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
63	Advanced organic electroactive nanomaterials for biomedical use. , 2020, , 141-165.		4
64	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
65	Nanoporous "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
66	ELECTRICAL PROPERTIES OF POLYSTYRENE MATRIX DOPED BY GOLD NANOPARTICLES AND 8HQ. AIP Conference Proceedings, 2008, , .	0.3	2
67	Proton Conductivity and Methanol Permeability of Sulfonated Syndiotactic Polystyrene Membranes. Soft Materials, 2011, 9, 224-237.	0.8	2
68	Long period fiber grating biosensor for the detection of drug resistant bacteria: The "OPTOBacteria" project. , 2014, , .		2
69	Reflection-type long period grating biosensor for detection of drug resistant bacteria: the OptoBacteria project. , 2015, , .		2
70	In-Depth Analysis of the High Strain Rate Compressive Behavior of RTM6 Epoxy Using Digital Image Correlation. Polymers, 2022, 14, 1771.	2.0	2
71	Sul polimorfismo del poli(4-metil-1-pentene) isotattico. Rendiconti Lincei, 1993, 4, 99-106.	1.0	1
72	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

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73	Current fluctuations in polystyrene nano-compounds. European Physical Journal B, 2010, 73, 207-210.	0.6	1
74	Porphyrin coated fiber optic probes for acid vapor detection. Proceedings of SPIE, 2013, , .	0.8	1
75	Graphene oxide-based nanohybrid for label-free optical sensing. , 2014, , .		1
76	Optical aliphatic hydrocarbon gas sensor based on Titanium Dioxide thin film. , 2015, , .		1
77	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
78	A Customized Knee Antibiotic-Loaded PMMA Spacer: A Pre-Liminary Design Analysis. Polymers, 2021, 13, 4065.	2.0	1
79	Functional multilayer coated long period grating tuned in transition region for life science applications. Proceedings of SPIE, 2010, , .	0.8	0
80	Reflection-type long period grating biosensor for the detection of drug resistant bacteria: The Opto-bacteria Project. , 2014, , .		0
81	High-sensitivity humidity sensors based on TiO <sub>2</sub> -coated long period fiber grating for high-energy physics applications. , 2014, , .		0
82	Radiation tolerant humidity sensors based on nano-scale TiO <sub>2</sub> -coated LPGs for high-energy physics applications. , 2014, , .		0
83	Fiber optic sensors for relative humidity monitoring in High Energy Physics applications. , 2014, , .		0
84	Bioinspired design of material with magneto optic coupling for electromagnetic sensing. , 2015, , .		0
85	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
86	Design of Biofunctional Platforms: Differently Processed Biomaterials with Polydopamine Coating. Lecture Notes in Electrical Engineering, 2021, , 17-23.	0.3	0