

Gabriel Bernardo

List of Publications by Year in descending order

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59
papers

1,126
citations

471477

17
h-index

434170

31
g-index

60
all docs

60
docs citations

60
times ranked

1615
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in membrane technologies for hydrogen purification. International Journal of Hydrogen Energy, 2020, 45, 7313-7338.	7.1	202
2	Recent Developments in the Optimization of the Bulk Heterojunction Morphology of Polymer: Fullerene Solar Cells. Materials, 2018, 11, 2560.	2.9	63
3	Progress in Upscaling Organic Photovoltaic Devices. Advanced Energy Materials, 2021, 11, 2100342.	19.5	63
4	Tailoring kappa/iota-hybrid carrageenan from Mastocarpus stellatus with desired gel quality through pre-extraction alkali treatment. Food Hydrocolloids, 2013, 31, 94-102.	10.7	55
5	Thermal stability of P3HT and P3HT:PCBM blends in the molten state. Polymer Testing, 2013, 32, 1192-1201.	4.8	50
6	Understanding and controlling morphology evolution via DIO plasticization in PffBT4T-2OD/PC71BM devices. Scientific Reports, 2017, 7, 44269.	3.3	47
7	The adsorption of ethylene on the (100) surfaces of platinum, palladium and nickel: a DFT study. Computational and Theoretical Chemistry, 2001, 542, 263-271.	1.5	44
8	Cellulose-Based Carbon Molecular Sieve Membranes for Gas Separation: A Review. Molecules, 2020, 25, 3532.	3.8	34
9	Development of hermetic glass frit encapsulation for perovskite solar cells. Journal Physics D: Applied Physics, 2019, 52, 074005.	2.8	29
10	NaCl and KCl phase diagrams of kappa/iota-hybrid carrageenans extracted from Mastocarpus stellatus. Food Hydrocolloids, 2014, 37, 116-123.	10.7	28
11	Thermal stability of low-bandgap copolymers PTB7 and PTB7-Th and their bulk heterojunction composites. Polymer Bulletin, 2018, 75, 515-532.	3.3	26
12	The adsorption of ethylene on the (110) surfaces of copper, silver and platinum: a DFT study. Computational and Theoretical Chemistry, 2002, 582, 159-169.	1.5	24
13	Diffusivity of alcohols in amorphous polystyrene. Journal of Applied Polymer Science, 2013, 127, 1803-1811.	2.6	23
14	Impact of fullerenes on the thermal stability of melt processed polystyrene and poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	4.8	22
15	Inhibition of thermal degradation of polystyrene by C60 and PCBM: A comparative study. Polymer Testing, 2014, 40, 63-69.	4.8	21
16	Equilibrium solubility of alcohols in polystyrene attained by controlled diffusion. European Polymer Journal, 2007, 43, 938-948.	5.4	20
17	Stable cellulose-based carbon molecular sieve membranes with very high selectivities. Journal of Membrane Science, 2022, 641, 119852.	8.2	19
18	Fullerene-modified polyamide 6 by in situ anionic polymerization in the presence of PCBM. Journal of Materials Science, 2014, 49, 4751-4764.	3.7	18

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19	Phase behavior of blends of PCBM with amorphous polymers with different aromaticity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 994-1001.	2.1	18
20	Luminescence properties of poly(9,9-dioctylfluorene)/polyvinylcarbazole blends: Role of composition on the emission colour stability and electroluminescence efficiency. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 340-345.	4.0	17
21	Luminescence properties of bipolar styreneamine-quinoxalines. <i>Optical Materials</i> , 2008, 31, 320-327.	3.6	15
22	Polymer light-emitting diodes with amorphous indium-zinc oxide anodes deposited at room temperature. <i>Synthetic Metals</i> , 2009, 159, 1112-1115.	3.9	15
23	Diffusivity of small molecules in polymers: Carboxylic acids in polystyrene. <i>Polymer</i> , 2012, 53, 976-983.	3.8	14
24	Effect of fullerene acceptor on the performance of solar cells based on PffBT4T-2OD. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19023-19029.	2.8	14
25	Enhanced thermal stability of poly(methyl methacrylate) composites with fullerenes. <i>Polymer Bulletin</i> , 2015, 72, 1775-1786.	3.3	13
26	Cluster model DFT study of acetylene adsorption on the Cu (100) surface. <i>Computational and Theoretical Chemistry</i> , 2003, 629, 251-261.	1.5	12
27	Polymer Light-Emitting Diode Interlayers TM Formation Studied by Current-Sensing Atomic Force Microscopy and Scaling Laws. <i>Journal of Physical Chemistry C</i> , 2010, 114, 572-579.	3.1	12
28	Solventless processing of conjugated polymers—A review. <i>Synthetic Metals</i> , 2014, 197, 23-33.	3.9	12
29	Different agglomeration properties of PC ₆₁ BM and PC ₇₁ BM in photovoltaic inks — a spin-echo SANS study. <i>RSC Advances</i> , 2020, 10, 4512-4520.	3.6	12
30	Solubility of carboxylic acids in a matrix of uncross-linked polystyrene. <i>European Polymer Journal</i> , 2007, 43, 4983-4994.	5.4	11
31	Melt processed polyethylene/fullerene nanocomposites with highly improved thermo-oxidative stability. <i>Polymer Testing</i> , 2015, 45, 124-131.	4.8	11
32	Propane selective carbon adsorbents from phenolic resin precursor. <i>Microporous and Mesoporous Materials</i> , 2021, 320, 111071.	4.4	11
33	Improving polymer light-emitting diodes efficiency using interlayers based on cross-linkable polymers. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	10
34	Diffusivity of alkanes in polystyrene. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	10
35	Increase in thermo-oxidation stability of conjugated polymers at high temperatures. <i>Polymer Testing</i> , 2014, 34, 183-191.	4.8	10
36	Spin cast thin polymer interlayers in polymer light-emitting diodes: Thickness control through use of cross-linkable polymers. <i>Journal of Applied Physics</i> , 2008, 103, 084510.	2.5	9

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37	Anomalous swelling of a polystyrene matrix in organic solvents. Journal of Applied Polymer Science, 2010, 115, 2402-2408.	2.6	9
38	Low temperature solid state processing of pure P3HT fibers. AIP Advances, 2013, 3, .	1.3	9
39	Efficient monolithic dye sensitized solar cells with eco-friendly silica-titania spacer layers. Solar Energy, 2019, 183, 419-424.	6.1	9
40	The Adsorption of Acetylene and Ethylene on Transition Metal Surfaces. Progress in Theoretical Chemistry and Physics, 2001, , 217-240.	0.2	8
41	A Journey along the Extruder with Polystyrene: C ₆₀ Nanocomposites: Convergence of Feeding Formulations into a Similar Nanomorphology. Macromolecules, 2017, 50, 3301-3312.	4.8	8
42	Recent Advances in Green-Solvent-Processable Organic Photovoltaics. Nanoenergy Advances, 2022, 2, 1-28.	7.7	8
43	Solubility of alkanes in a polystyrene matrix. Journal of Applied Polymer Science, 2008, 110, 2393-2398.	2.6	7
44	Does 1,8-diiodooctane affect the aggregation state of PC ₇₁ BM in solution?. Royal Society Open Science, 2018, 5, 180937.	2.4	7
45	Thiophene- and Carbazole-Substituted N-Methyl-Fulleropyrrolidine Acceptors in PffBT4T-2OD Based Solar Cells. Materials, 2020, 13, 1267.	2.9	6
46	Recent Progress in the Understanding and Manipulation of Morphology in Polymer: Fullerene Photovoltaic Cells. , 0, , .		6
47	Synergistic effect on the efficiency of polymer light-emitting diodes upon blending of two green-emitting polymers. Journal of Applied Physics, 2010, 108, .	2.5	5
48	Solid-state low-temperature extrusion of P3HT ribbons. Applied Physics A: Materials Science and Processing, 2014, 117, 2079-2086.	2.3	5
49	Determination of the Thin-Film Structure of Zwitterion-Doped Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate): A Neutron Reflectivity Study. ACS Applied Materials & Interfaces, 2019, 11, 13803-13811.	8.0	4
50	Impact of 1,8-diiodooctane on the morphology of organic photovoltaic (OPV) devices – A Small Angle Neutron Scattering (SANS) study. Polymer Testing, 2020, 82, 106305.	4.8	4
51	Phase Morphology and Molecular Structure Correlations in Model Fullerene-Polymer Nanocomposites. Materials Science Forum, 0, 714, 63-66.	0.3	3
52	Evolution of dispersion in the melt compounding of a model polymer nanocomposite system: A multi-scale study. Polymer Testing, 2019, 76, 109-118.	4.8	3
53	Embedded current collectors for efficient large area perovskite solar cells. International Journal of Energy Research, 2022, 46, 5288-5295.	4.5	3
54	Impact of composition and morphology on the optical properties of Si-NC/P3HT thin films processed from solution. Applied Physics A: Materials Science and Processing, 2013, 113, 439-446.	2.3	2

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55	PffBT4T-2OD Based Solar Cells with Aryl-Substituted N-Methyl-Fulleropyrrolidine Acceptors. <i>Materials</i> , 2019, 12, 4100.	2.9	2
56	Equilibrium swelling of polystyrene by alkanes and carboxylic acids: A simple quantitative correlation model. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1348-1356.	2.6	1
57	Morphology Control of Thin P3HT-Si-NCs Composite Films for Hybrid Photovoltaic Cells. <i>Materials Science Forum</i> , 0, 730-732, 227-231.	0.3	1
58	Improved Performance and Stability of Organic Solar Cells by the Incorporation of a Block Copolymer Interfacial Layer. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000918.	3.7	1
59	Graded Morphologies and the Performance of PffBT4T-2OD:PC71BM Devices Using Additive Choice. <i>Nanomaterials</i> , 2021, 11, 3367.	4.1	1