

Sophie Barrau

List of Publications by Year in descending order

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papers

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citations

331538

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docs citations

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times ranked

3696
citing authors

#	ARTICLE	IF	CITATIONS
1	DC and AC Conductivity of Carbon Nanotubes/Polyepoxy Composites. <i>Macromolecules</i> , 2003, 36, 5187-5194.	2.2	557
2	Crystallization Behavior of Carbon Nanotube/Poly lactide Nanocomposites. <i>Macromolecules</i> , 2011, 44, 6496-6502.	2.2	197
3	Effect of Palmitic Acid on the Electrical Conductivity of Carbon Nanotubes/Epoxy Resin Composites. <i>Macromolecules</i> , 2003, 36, 9678-9680.	2.2	176
4	Inverted and transparent polymer solar cells prepared with vacuum-free processing. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 497-500.	3.0	148
5	Designing Multiple-Shape Memory Polymers with Miscible Polymer Blends: Evidence and Origins of a Triple-Shape Memory Effect for Miscible PLLA/PMMA Blends. <i>Macromolecules</i> , 2014, 47, 6791-6803.	2.2	147
6	Investigation on polymer anode design for flexible polymer solar cells. <i>Applied Physics Letters</i> , 2008, 92, 233308.	1.5	142
7	High photovoltage achieved in low band gap polymer solar cells by adjusting energy levels of a polymer with the LUMOs of fullerene derivatives. <i>Journal of Materials Chemistry</i> , 2008, 18, 5468.	6.7	137
8	Synthesis, Characterization, and Devices of a Series of Alternating Copolymers for Solar Cells. <i>Chemistry of Materials</i> , 2009, 21, 3491-3502.	3.2	118
9	Self-Assembling of Novel Fullerene-Grafted Donor-Acceptor Rod-Coil Block Copolymers. <i>Macromolecules</i> , 2008, 41, 2701-2710.	2.2	113
10	Glass Transition Temperature Depression at the Percolation Threshold in Carbon Nanotube-Epoxy Resin and Polypyrrole-Epoxy Resin Composites. <i>Macromolecular Rapid Communications</i> , 2005, 26, 390-394.	2.0	87
11	Nanoscale Investigations of β - and γ -Crystal Phases in PVDF-Based Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13092-13099.	4.0	87
12	Novel Brush-Type Copolymers Bearing Thiophene Backbone and Side Chain Quinoline Blocks. Synthesis and Their Use as a Compatibilizer in Thiophene/Quinoline Polymer Blends. <i>Macromolecules</i> , 2007, 40, 921-927.	2.2	64
13	Nanomorphology of Bulk Heterojunction Organic Solar Cells in 2D and 3D Correlated to Photovoltaic Performance. <i>Macromolecules</i> , 2009, 42, 4646-4650.	2.2	45
14	Integration of amyloid nanowires in organic solar cells. <i>Applied Physics Letters</i> , 2008, 93, 023307.	1.5	44
15	Shape-Memory Behavior of Poly lactide/Silica Ionic Hybrids. <i>Macromolecules</i> , 2017, 50, 2896-2905.	2.2	43
16	In situ SAXS/WAXS investigation of the structural evolution of poly(vinylidene fluoride) upon uniaxial stretching. <i>Polymer</i> , 2016, 84, 148-157.	1.8	39
17	Impact of carbon nanotube prelocalization on the ultra-low electrical percolation threshold and on the mechanical behavior of sintered UHMWPE-based nanocomposites. <i>Polymer</i> , 2017, 111, 204-213.	1.8	38
18	Influence of nitrodopamine-functionalized barium titanate content on the piezoelectric response of poly(vinylidene fluoride) based polymer-ceramic composites. <i>Composites Science and Technology</i> , 2017, 147, 16-21.	3.8	38

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19	Spectroscopic detection of carbon nanotube interaction with amphiphilic molecules in epoxy resin composites. <i>Journal of Applied Physics</i> , 2005, 97, 034303.	1.1	26
20	Probing the local piezoelectric behavior in stretched barium titanate/poly(vinylidene fluoride) nanocomposites. <i>Composites Science and Technology</i> , 2020, 186, 107914.	3.8	22
21	On the Nanoscale Mapping of the Mechanical and Piezoelectric Properties of Poly (L-Lactic Acid) Electrospun Nanofibers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 652.	1.3	22
22	Fire retardant sol-gel coatings for flexible polyurethane foams. <i>RSC Advances</i> , 2016, 6, 28543-28554.	1.7	19
23	Similarities in the Raman RBM and D bands in double-wall carbon nanotubes. <i>Physical Review B</i> , 2005, 72, .	1.1	13
24	Mechanistic insights on ultra-tough polylactide-based ionic nanocomposites. <i>Composites Science and Technology</i> , 2020, 191, 108075.	3.8	13
25	Solvent-Free Design of Biobased Non-isocyanate Polyurethanes with Ferroelectric Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14946-14958.	3.2	11
26	Excited-State Dynamics of Dithienylethenes Functionalized for Self-Supramolecular Assembly. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3572-3582.	1.1	10
27	Thermally reversible crosslinked copolymers: Solution and bulk behavior. <i>Polymer</i> , 2017, 117, 342-353.	1.8	8
28	Thermoelectric properties of bulk multi-walled carbon nanotube - poly(vinylidene fluoride) nanocomposites: Study of the structure/property relationships. <i>Synthetic Metals</i> , 2020, 269, 116525.	2.1	8
29	Synthesis of lead-free (Bi _{0.5} Na _{0.5})TiO ₃ thin film by RF magnetron sputtering: Impact of Na on the properties of film. <i>Ferroelectrics</i> , 2020, 556, 79-86.	0.3	8
30	In-situ SAXS/WAXS investigations of ureidopyrimidinone functionalized semi-crystalline poly(ethylene-co-butylene) supramolecular polymers. <i>Polymer</i> , 2021, 228, 123875.	1.8	8
31	Cathodic electropolymerization on the surface of carbon nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 589, 46-51.	1.9	7
32	Mastering Superior Performance Origins of Ionic Polyurethane/Silica Hybrids. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6684-6693.	2.0	6
33	Formulation of eco-friendly sol-gel coatings to flame-retard flexible polyurethane foam. <i>Green Materials</i> , 2020, 8, 139-149.	1.1	5
34	RAFT polymerisation of trifluoroethylene: the importance of understanding reverse additions. <i>Polymer Chemistry</i> , 2021, 12, 2271-2281.	1.9	5
35	Influence of photooxidation on ionic reversible interactions of ionic poly(ether urethane)/silica hybrids. <i>Polymer Degradation and Stability</i> , 2022, 197, 109872.	2.7	2
36	Laser Induced Modifications of Carbon Nanotube Composite Surfaces. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 7776-7779.	0.8	1

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37	Physical properties of CNTs-polyepoxy nanocomposites. Influence of CNTs surface treatments. Revue Internationale De Génie Électrique, 2009, 12, 423-431.	0.0	0