

Didier Rouxel

List of Publications by Year in descending order

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47
papers

1,609
citations

279487

23
h-index

301761

39
g-index

47
all docs

47
docs citations

47
times ranked

2268
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable lithium-ion battery separators derived from polyethylene oxide/lignocellulose coated electrospun P(VDF-TrFE) nanofibrous membranes. <i>Surfaces and Interfaces</i> , 2022, 29, 101716.	1.5	12
2	Hydrated metal salt and Y ₃ Fe ₅ O ₁₂ •Na _{0.5} K _{0.5} NbO ₃ -incorporated P(VDF-HFP) films: a promising combination of materials with multiferroic and energy harvesting properties. <i>Journal of Materials Science</i> , 2022, 57, 7653-7666.	1.7	11
3	Multiferroic and energy harvesting characteristics of P(VDF-TrFE)-CuFe ₂ O ₄ flexible films. <i>Polymer</i> , 2022, 252, 124910.	1.8	11
4	Effects of nanofillers on morphology and surface wetting of microporous polypropylene composite membranes. <i>Materials Chemistry and Physics</i> , 2021, 257, 123742.	2.0	13
5	Recent advances in flexible PVDF based piezoelectric polymer devices for energy harvesting applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 746-780.	1.4	103
6	Plasticized P(VDF-TrFE): A new flexible piezoelectric material with an easier polarization process, promising for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50420.	1.3	4
7	Interfacial tuning and designer morphologies of microporous membranes based on polypropylene/natural rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51208.	1.3	9
8	Carbon black distribution in natural rubber/butadiene rubber blend composites: Distribution driven by morphology. <i>Composites Science and Technology</i> , 2020, 200, 108484.	3.8	25
9	Thermal and electrical properties of phenol formaldehyde foams reinforcing with reduced graphene oxide. <i>Polymer Composites</i> , 2020, 41, 4329-4339.	2.3	8
10	Facile fabrication of microporous polypropylene membrane separator for lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2020, 255, 123473.	2.0	15
11	Enhancement of ferroelectric performance in PVDF:Fe ₃ O ₄ nanocomposite based organic multiferroic tunnel junctions. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	19
12	Flexible dopamine-functionalized BaTiO ₃ /BaTiZrO ₃ /BaZrO ₃ -PVDF ferroelectric nanofibers for electrical energy storage. <i>Journal of Alloys and Compounds</i> , 2020, 837, 155492.	2.8	47
13	Resilience improvement of an isotactic polypropylene-g-maleic anhydride by crosslinking using polyether triamine agents. <i>Polymer</i> , 2019, 179, 121655.	1.8	9
14	Thermal, biodegradation and theoretical perspectives on nanoscale confinement in starch/cellulose nanocomposite modified via green crosslinker. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 781-790.	3.6	29
15	Magnetic performance and defect characterization studies of core-shell architected MgFe ₂ O ₄ @BaTiO ₃ multiferroic nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8709-8720.	1.3	26
16	Chitosan ascorbate hydrogel improves water uptake capacity and cell adhesion of electrospun poly(epsilon-caprolactone) membranes. <i>International Journal of Pharmaceutics</i> , 2019, 559, 420-426.	2.6	43
17	Flexible and self-standing nickel ferrite-PVDF-TrFE cast films: promising candidates for high-end magnetoelectric applications. <i>Dalton Transactions</i> , 2019, 48, 16961-16973.	1.6	45
18	Multifunctional nitrogen sulfur co-doped reduced graphene oxide Ag nano hybrids (sphere, cube) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	5.4	47

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19	Dopamine functionalization of BaTiO ₃ : an effective strategy for the enhancement of electrical, magnetoelectric and thermal properties of BaTiO ₃ -PVDF-TrFE nanocomposites. Dalton Transactions, 2018, 47, 2039-2051.	1.6	74
20	Low-Temperature Variation of Acoustic Velocity in PDMS for High-Frequency Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 862-869.	1.7	4
21	Highly lithium ion conductive, Al ₂ O ₃ decorated electrospun P(VDF-TrFE) membranes for lithium ion battery separators. New Journal of Chemistry, 2018, 42, 19505-19520.	1.4	52
22	In Situ Synthesis of Silver Nanospheres, Nanocubes, and Nanowires over Boron-Doped Graphene Sheets for Surface-Enhanced Raman Scattering Application and Enzyme-Free Detection of Hydrogen Peroxide. Langmuir, 2018, 34, 13603-13614.	1.6	19
23	Poly(ϵ -caprolactone)/Functionalized Carbon Nanotube Electrospun Nanocomposites: Crystallization and Thermal Properties. Macromolecular Symposia, 2018, 381, 1800140.	0.4	11
24	Electrospun poly(vinylidene fluoride-trifluoroethylene)/zinc oxide nanocomposite tissue engineering scaffolds with enhanced cell adhesion and blood vessel formation. Nano Research, 2017, 10, 3358-3376.	5.8	146
25	Dynamic light scattering study of the ultrasonication of P(VDF-TrFE): A new model. International Journal of Polymer Analysis and Characterization, 2017, 22, 649-658.	0.9	0
26	Synthesis, antibacterial, cytotoxicity and sensing properties of starch-capped silver nanoparticles. Journal of Molecular Liquids, 2016, 213, 75-81.	2.3	58
27	Electric, magnetic, piezoelectric and magnetoelectric studies of phase pure (BiFeO ₃ -NaNbO ₃)-P(VDF-TrFE) nanocomposite films prepared by spin coating. RSC Advances, 2016, 6, 28069-28080.	1.7	50
28	Surface Acoustic Wave Device with Reduced Insertion Loss by Electrospinning P(VDF-TrFE)/ZnO Nanocomposites. Nano-Micro Letters, 2016, 8, 282-290.	14.4	40
29	Completely green synthesis of silver nanoparticle decorated MWCNT and its antibacterial and catalytic properties. Pure and Applied Chemistry, 2016, 88, 71-81.	0.9	33
30	Green synthesis of yellow emitting PMMA-CdSe/ZnS quantum dots nanophosphors. Materials Science in Semiconductor Processing, 2015, 39, 587-595.	1.9	16
31	Electric, magnetic and optical limiting (short pulse and ultrafast) studies in phase pure (1 μ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 method. RSC Advances, 2015, 5, 67157-67164.	1.7	31
32	Dispersion of nanoparticles: From organic solvents to polymer solutions. Ultrasonics Sonochemistry, 2014, 21, 149-153.	3.8	47
33	Effect of ultrasonication and other processing conditions on the morphology, thermomechanical, and piezoelectric properties of poly(vinylidene difluoride-trifluoroethylene) copolymer films. Polymer Engineering and Science, 2014, 54, 1280-1288.	1.5	17
34	Nanocomposite piezoelectric films of P(VDF-TrFE)/LiNbO ₃ . Journal of Applied Polymer Science, 2013, 129, 391-396.	1.3	16
35	Preparation of transparent PMMA/Fe(IO ₃) ₃ nanocomposite films from microemulsion polymerization. Journal of Applied Polymer Science, 2013, 130, 1203-1211.	1.3	5
36	Investigation of elastic constants of polymer/nanoparticles composites using the brillouin spectroscopy and the mechanical homogenization modeling. Polymer Engineering and Science, 2013, 53, 1502-1511.	1.5	10

#	ARTICLE	IF	CITATIONS
37	Flexible over-moded resonators based on P(VDF-TrFE) thin films with very high temperature coefficient. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2039-2043.	1.7	8
38	Influence of cluster size and surface functionalization of ZnO nanoparticles on the morphology, thermomechanical and piezoelectric properties of P(VDF-TrFE) nanocomposite films. Applied Surface Science, 2013, 279, 204-211.	3.1	78
39	Temperature-dependent adsorption of surfactant molecules and associated crystallization kinetics of noncentrosymmetric Fe(IO ₃) ₃ nanorods in microemulsions. Materials Research Bulletin, 2013, 48, 4431-4437.	2.7	3
40	Preparation and characterization of P(VDF-TrFE)/Al ₂ O ₃ nanocomposite. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 163-167.	1.7	31
41	In Situ Crystallization and Growth Dynamics of Acentric Iron Iodate Nanocrystals in w/o Microemulsions Probed by Hyper-Rayleigh Scattering Measurements. Journal of Physical Chemistry C, 2011, 115, 23-30.	1.5	19
42	Effect of ultrasonication and dispersion stability on the cluster size of alumina nanoscale particles in aqueous solutions. Ultrasonics Sonochemistry, 2011, 18, 382-388.	3.8	173
43	New Synthesis of Nanosized Niobium Oxides and Lithium Niobate Particles and Their Characterization by XPS Analysis. Journal of Nanoscience and Nanotechnology, 2009, 9, 4780-4785.	0.9	98
44	Multiscale Characterization of Single-Walled Carbon Nanotube/Polymer Composites by Coupling Raman and Brillouin Spectroscopy. Journal of Physical Chemistry C, 2009, 113, 17648-17654.	1.5	28
45	Surface oxidation of the Al ₆₂ Cu _{25.5} Fe _{12.5} icosahedral quasicrystal. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2000, 80, 2083-2097.	0.8	30
46	Two-dimensional overgrowth in the low submonolayer range: the case of. Surface Science, 1995, 324, 1-7.	0.8	25
47	Thermal-energy atom-scattering study of Pb submonolayers on Cu(110). Physical Review B, 1991, 44, 4024-4027.	1.1	11