

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
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47
all docs

47
docs citations

47
times ranked

2268
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of ultrasonication and dispersion stability on the cluster size of alumina nanoscale particles in aqueous solutions. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 382-388.	3.8	173
2	Electrospun poly(vinylidene fluoride-trifluoroethylene)/zinc oxide nanocomposite tissue engineering scaffolds with enhanced cell adhesion and blood vessel formation. <i>Nano Research</i> , 2017, 10, 3358-3376.	5.8	146
3	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
4	New Synthesis of Nanosized Niobium Oxides and Lithium Niobate Particles and Their Characterization by XPS Analysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4780-4785.	0.9	98
5	Influence of cluster size and surface functionalization of ZnO nanoparticles on the morphology, thermomechanical and piezoelectric properties of P(VDF-TrFE) nanocomposite films. <i>Applied Surface Science</i> , 2013, 279, 204-211.	3.1	78
6	Dopamine functionalization of BaTiO ₃ : an effective strategy for the enhancement of electrical, magnetoelectric and thermal properties of BaTiO ₃ -PVDF-TrFE nanocomposites. <i>Dalton Transactions</i> , 2018, 47, 2039-2051.	1.6	74
7	Synthesis, antibacterial, cytotoxicity and sensing properties of starch-capped silver nanoparticles. <i>Journal of Molecular Liquids</i> , 2016, 213, 75-81.	2.3	58
8	Highly lithium ion conductive, Al ₂ O ₃ decorated electrospun P(VDF-TrFE) membranes for lithium ion battery separators. <i>New Journal of Chemistry</i> , 2018, 42, 19505-19520.	1.4	52
9	Electric, magnetic, piezoelectric and magnetoelectric studies of phase pure (BiFeO ₃ •NaNbO ₃)•P(VDF-TrFE) nanocomposite films prepared by spin coating. <i>RSC Advances</i> , 2016, 6, 28069-28080.	1.7	50
10	Dispersion of nanoparticles: From organic solvents to polymer solutions. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 149-153.	3.8	47
11	Multifunctional nitrogen sulfur co-doped reduced graphene oxide • Ag nano hybrids (sphere, cube) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 67 T	3.4	47
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	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
14	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
15	Surface Acoustic Wave Device with Reduced Insertion Loss by Electrospinning P(VDF•TrFE)/ZnO Nanocomposites. <i>Nano-Micro Letters</i> , 2016, 8, 282-290.	14.4	40
16	Completely green synthesis of silver nanoparticle decorated MWCNT and its antibacterial and catalytic properties. <i>Pure and Applied Chemistry</i> , 2016, 88, 71-81.	0.9	33
17	Preparation and characterization of P(VDF-TrFE)/Al ₂ O ₃ nanocomposite. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 163-167.	1.7	31
18	Electric, magnetic and optical limiting (short pulse and ultrafast) studies in phase pure (1 •) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 T method. <i>RSC Advances</i> , 2015, 5, 67157-67164.	1.7	31

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19	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
20	Thermal, biodegradation and theoretical perspectives on nanoscale confinement in starch/cellulose nanocomposite modified via green crosslinker. International Journal of Biological Macromolecules, 2019, 134, 781-790.	3.6	29
21	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
22	Magnetic performance and defect characterization studies of core-shell architected MgFe ₂ O ₄ @BaTiO ₃ multiferroic nanostructures. Physical Chemistry Chemical Physics, 2019, 21, 8709-8720.	1.3	26
23	Two-dimensional overgrowth in the low submonolayer range: the case of. Surface Science, 1995, 324, 1-7.	0.8	25
24	Carbon black distribution in natural rubber/butadiene rubber blend composites: Distribution driven by morphology. Composites Science and Technology, 2020, 200, 108484.	3.8	25
25	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
26	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
27	Enhancement of ferroelectric performance in PVDF:Fe ₃ O ₄ nanocomposite based organic multiferroic tunnel junctions. Applied Physics Letters, 2020, 116, .	1.5	19
28	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
29	Nanocomposite piezoelectric films of P(VDF-TrFE)/LiNbO ₃ . Journal of Applied Polymer Science, 2013, 129, 391-396.	1.3	16
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	Facile fabrication of microporous polypropylene membrane separator for lithium-ion batteries. Materials Chemistry and Physics, 2020, 255, 123473.	2.0	15
32	Effects of nanofillers on morphology and surface wetting of microporous polypropylene composite membranes. Materials Chemistry and Physics, 2021, 257, 123742.	2.0	13
33	Sustainable lithium-ion battery separators derived from polyethylene oxide/lignocellulose coated electrospun P(VDF-TrFE) nanofibrous membranes. Surfaces and Interfaces, 2022, 29, 101716.	1.5	12
34	Thermal-energy atom-scattering study of Pb submonolayers on Cu(110). Physical Review B, 1991, 44, 4024-4027.	1.1	11
35	Poly(ϵ -caprolactone)/Functionalized Carbon Nanotube Electrospun Nanocomposites: Crystallization and Thermal Properties. Macromolecular Symposia, 2018, 381, 1800140.	0.4	11
36	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. Journal of Materials Science, 2022, 57, 7653-7666.	1.7	11

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37	Multiferroic and energy harvesting characteristics of P(VDF-TrFE)-CuFe ₂ O ₄ flexible films. <i>Polymer</i> , 2022, 252, 124910.	1.8	11
38	Investigation of elastic constants of polymer/nanoparticles composites using the Brillouin spectroscopy and the mechanical homogenization modeling. <i>Polymer Engineering and Science</i> , 2013, 53, 1502-1511.	1.5	10
39	Resilience improvement of an isotactic polypropylene-g-maleic anhydride by crosslinking using polyether triamine agents. <i>Polymer</i> , 2019, 179, 121655.	1.8	9
40	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
41	Flexible over-mode resonators based on P(VDF-TrFE) thin films with very high temperature coefficient. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 2039-2043.	1.7	8
42	Thermal and electrical properties of phenol formaldehyde foams reinforcing with reduced graphene oxide. <i>Polymer Composites</i> , 2020, 41, 4329-4339.	2.3	8
43	Preparation of transparent PMMA/Fe(IO ₃) ₃ nanocomposite films from microemulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1203-1211.	1.3	5
44	Low-Temperature Variation of Acoustic Velocity in PDMS for High-Frequency Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 862-869.	1.7	4
45	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
46	Temperature-dependent adsorption of surfactant molecules and associated crystallization kinetics of noncentrosymmetric Fe(IO ₃) ₃ nanorods in microemulsions. <i>Materials Research Bulletin</i> , 2013, 48, 4431-4437.	2.7	3
47	Dynamic light scattering study of the ultrasonication of P(VDF-TrFE): A new model. <i>International Journal of Polymer Analysis and Characterization</i> , 2017, 22, 649-658.	0.9	0