

Raquel Verdejo

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3855610/raquel-verdejo-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

6,736
citations

43
h-index

81
g-index

113
ext. papers

7,551
ext. citations

5.8
avg, IF

6.02
L-index

#	Paper	IF	Citations
108	Measuring self-healing in epoxy matrices: The need for standard conditions. <i>Reactive and Functional Polymers</i> , 2021 , 161, 104847	4.6	4
107	Sustainable mobility: The route of tires through the circular economy model. <i>Waste Management</i> , 2021 , 126, 309-322	8.6	14
106	Effect of filler content on scratch behavior and tribological performance of polyester/graphene oxide nanocomposite coating 2021 , 18, 1269-1280		0
105	Tribological and mechanical characterization of epoxy/graphite composite coatings: Effects of particles size and oxidation. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2021 , 235, 129-137	1.4	3
104	Synthesis of sustainable, lightweight and electrically conductive polymer brushes grafted multi-layer graphene oxide. <i>Polymer Testing</i> , 2021 , 93, 106986	4.5	4
103	Melt and solution processable novel photoluminescent polymer blends for multifaceted advanced applications. <i>Polymer</i> , 2021 , 215, 123378	3.9	5
102	On the Use of Mechano-Chemically Modified Ground Tire Rubber (GTR) as Recycled and Sustainable Filler in Styrene-Butadiene Rubber (SBR) Composites. <i>Journal of Composites Science</i> , 2021 , 5, 68	3	12
101	Stretchable, Bio-Compatible, Antioxidant and Self-Powering Adhesives from Soluble Silk Fibroin and Vegetal Polyphenols Exfoliated Graphite. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
100	Understanding the Molecular Dynamics of Dual Crosslinked Networks by Dielectric Spectroscopy. <i>Polymers</i> , 2021 , 13,	4.5	3
99	Effect of terbium(III) species on the structure and physical properties of polyurethane (TPU). <i>Polymer</i> , 2021 , 233, 124209	3.9	0
98	SEBS-Grafted Itaconic Acid as Compatibilizer for Elastomer Nanocomposites Based on BaTiO Particles. <i>Polymers</i> , 2020 , 12,	4.5	4
97	Design of Rubber Composites with Autonomous Self-Healing Capability. <i>ACS Omega</i> , 2020 , 5, 1902-1910	3.9	39
96	Highly Deformable Porous Electromagnetic Wave Absorber Based on Ethylene-Propylene-Diene Monomer/Multiwall Carbon Nanotube Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	6
95	Flexural electromechanical properties of multilayer graphene sheet/carbon nanotube/vinyl ester hybrid nanocomposites. <i>Composites Science and Technology</i> , 2020 , 194, 108164	8.6	4
94	Dielectric Properties of All-Organic Coatings: Comparison of PEDOT and PANI in Epoxy Matrices. <i>Journal of Composites Science</i> , 2020 , 4, 26	3	2
93	Preparation and Characterization of Highly Elastic Foams with Enhanced Electromagnetic Wave Absorption Based on Ethylene-Propylene-Diene-Monomer Rubber Filled with Barium Titanate/Multiwall Carbon Nanotube Hybrid. <i>Polymers</i> , 2020 , 12,	4.5	5
92	An effective and sustainable approach for achieving self-healing in nitrile rubber. <i>European Polymer Journal</i> , 2020 , 139, 110032	5.2	18

91	Evolution of self-healing elastomers, from extrinsic to combined intrinsic mechanisms: a review. <i>Materials Horizons</i> , 2020 , 7, 2882-2902	14.4	87
90	In-Situ Preparation of Carbonaceous Conductive Composite Materials Based on PEDOT and Biowaste for Flexible Pseudocapacitor Application. <i>Journal of Composites Science</i> , 2020 , 4, 87	3	2
89	Structure, thermal and mechanical properties of poly (ε-caprolactone)/organomodified clay bionanocomposites prepared in open air by in situ polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020 , 57, 865-875	2.2	3
88	Elastomeric nanocomposite foams with improved properties for extreme conditions 2020 , 133-147		3
87	Thermal, electrical, and sensing properties of rubber nanocomposites 2020 , 149-175		7
86	Transport Properties of One-Step Compression Molded Epoxy Nanocomposite Foams. <i>Polymers</i> , 2019 , 11,	4.5	3
85	Thermo-reversible crosslinked natural rubber: A Diels-Alder route for reuse and self-healing properties in elastomers. <i>Polymer</i> , 2019 , 175, 15-24	3.9	50
84	Multifunctional Silicone Rubber Nanocomposites by Controlling the Structure and Morphology of Graphene Material. <i>Polymers</i> , 2019 , 11,	4.5	13
83	Electro-mechanical actuation performance of SEBS/PU blends. <i>Polymer</i> , 2019 , 171, 25-33	3.9	19
82	Preparation and Mechanical Properties of Graphene/Carbon Fiber-Reinforced Hierarchical Polymer Composites. <i>Journal of Composites Science</i> , 2019 , 3, 30	3	25
81	In-situ cure monitoring of epoxy/graphene nanocomposites by several spectroscopic techniques. <i>Polymer Testing</i> , 2019 , 80, 106114	4.5	5
80	Giving a Second Opportunity to Tire Waste: An Alternative Path for the Development of Sustainable Self-Healing Styrene-Butadiene Rubber Compounds Overcoming the Magic Triangle of Tires. <i>Polymers</i> , 2019 , 11,	4.5	25
79	Modeling the heat transfer by conduction of nanocellular polymers with bimodal cellular structures. <i>Polymer</i> , 2019 , 160, 126-137	3.9	21
78	Synthesis of fluorinated graphene oxide by using an easy one-pot deoxyfluorination reaction. <i>Journal of Colloid and Interface Science</i> , 2018 , 524, 219-226	9.3	21
77	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. <i>European Polymer Journal</i> , 2018 , 101, 56-65	5.2	14
76	A comparative study on the mechanical, electrical and piezoresistive properties of polymer composites using carbon nanostructures of different topology. <i>European Polymer Journal</i> , 2018 , 99, 394-402	5.2	31
75	Epoxy Nanocomposites Filled with Carbon Nanoparticles. <i>Chemical Record</i> , 2018 , 18, 928-939	6.6	13
74	Design of a new generation of sustainable SBR compounds with good trade-off between mechanical properties and self-healing ability. <i>European Polymer Journal</i> , 2018 , 106, 273-283	5.2	22

73	Molecular confinement of solid and gaseous phases of self-standing bulk nanoporous polymers inducing enhanced and unexpected physical properties. <i>Polymer</i> , 2017 , 113, 27-33	3.9	27
72	Customizing thermally-reduced graphene oxides for electrically conductive or mechanical reinforced epoxy nanocomposites. <i>European Polymer Journal</i> , 2017 , 93, 1-7	5.2	21
71	Facile and Scalable One-Step Method for Amination of Graphene Using Leuckart Reaction. <i>Chemistry of Materials</i> , 2017 , 29, 6698-6705	9.6	24
70	Dielectric behavior of porous PMMA: From the micrometer to the nanometer scale. <i>Polymer</i> , 2016 , 107, 302-305	3.9	27
69	All-Polystyrene 3D-Printed Electrochemical Device with Embedded Carbon Nanofiber-Graphite-Polystyrene Composite Conductor. <i>Electroanalysis</i> , 2016 , 28, 1517-1523	3	111
68	Thermally reduced graphene is a permissive material for neurons and astrocytes and de novo neurogenesis in the adult olfactory bulb <i>in vivo</i> . <i>Biomaterials</i> , 2016 , 82, 84-93	15.6	35
67	Evaluation of Biocompatibility of Uncoated Thermally Reduced Graphene and Carbon Nanotube-Loaded PVDF Membranes with Adult Neural Stem Cell-Derived Neurons and Glia. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 94	5.8	22
66	Synergistic effect of graphene nanoplatelets and carbon black in multifunctional EPDM nanocomposites. <i>Composites Science and Technology</i> , 2016 , 128, 123-130	8.6	58
65	Increasing the performance of dielectric elastomer actuators: A review from the materials perspective. <i>Progress in Polymer Science</i> , 2015 , 51, 188-211	29.6	264
64	Epoxy resin curing reaction studied by proton multiple-quantum NMR. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1324-1332	2.6	17
63	Morphology and mechanical properties of nanostructured thermoset/block copolymer blends with carbon nanoparticles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 71, 136-143	8.4	23
62	Influence of carbon nanoparticles on the polymerization and EMI shielding properties of PU nanocomposite foams. <i>RSC Advances</i> , 2014 , 4, 7911	3.7	53
61	Effect of carbon nanofillers on flexible polyurethane foaming from a chemical and physical perspective. <i>RSC Advances</i> , 2014 , 4, 20761	3.7	17
60	Thermal and bio-disintegration properties of poly(lactic acid)/natural rubber/organoclay nanocomposites. <i>Applied Clay Science</i> , 2014 , 93-94, 78-84	5.2	20
59	Semiconductive bionanocomposites of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) and MWCNTs for neural growth applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 349-360	2.6	3
58	Bismuth complex catalysts for the in situ preparation of polycaprolactone/silicate bionanocomposites. <i>Polymer International</i> , 2014 , 63, 709-717	3.3	8
57	Simple, convenient, and nondestructive electromagnetic characterization technique for composite and multiscale hybrid samples at microwave frequencies. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 504-509	1.2	4
56	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. <i>Carbon</i> , 2013 , 65, 156-164	10.4	272

55	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: properties evaluation. <i>Carbohydrate Polymers</i> , 2013 , 96, 621-7	10.3	82
54	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites part I. Processing and morphology. <i>Carbohydrate Polymers</i> , 2013 , 96, 611-20	10.3	88
53	The role of carbon nanotubes in both physical and chemical liquid-solid transition of polydimethylsiloxane. <i>European Polymer Journal</i> , 2013 , 49, 1373-1380	5.2	9
52	Comparison of filler percolation and mechanical properties in graphene and carbon nanotubes filled epoxy nanocomposites. <i>European Polymer Journal</i> , 2013 , 49, 1347-1353	5.2	202
51	Multifunctional nanostructured PLA materials for packaging and tissue engineering. <i>Progress in Polymer Science</i> , 2013 , 38, 1720-1747	29.6	421
50	Cationic photocured epoxy nanocomposites filled with different carbon fillers. <i>Polymer</i> , 2012 , 53, 1831-1838	3.7	48
49	Coalescence analysis for evolving foams via optical flow computation on projection image sequences. <i>Journal of Synchrotron Radiation</i> , 2012 , 19, 483-91	2.4	7
48	Towards materials with enhanced electro-mechanical response: CaCu ₃ Ti ₄ O ₁₂ /polydimethylsiloxane composites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24705		67
47	Deformation mechanisms in polylactic acid/natural rubber/organoclay bionanocomposites as revealed by synchrotron X-ray scattering. <i>Soft Matter</i> , 2012 , 8, 8990	3.6	46
46	Overall performance of natural rubber/graphene nanocomposites. <i>Composites Science and Technology</i> , 2012 , 73, 40-46	8.6	153
45	Effect of hard segment content and carbon-based nanostructures on the kinetics of flexible polyurethane nanocomposite foams. <i>Polymer</i> , 2012 , 53, 4025-4032	3.9	20
44	Role of Vulcanizing Additives on the Segmental Dynamics of Natural Rubber. <i>Macromolecules</i> , 2012 , 45, 1070-1075	5.5	37
43	Comparing the effect of carbon-based nanofillers on the physical properties of flexible polyurethane foams. <i>Journal of Materials Science</i> , 2012 , 47, 5673-5679	4.3	47
42	Physicochemical properties of organoclay filled polylactic acid/natural rubber blend bionanocomposites. <i>Composites Science and Technology</i> , 2012 , 72, 305-313	8.6	101
41	Vulcanization Characteristics and Curing Kinetic of Rubber/Organoclay Nanocomposites 2011 , 275-303		3
40	Reactive Nanocomposite Foams. <i>Frontiers in Forests and Global Change</i> , 2011 , 30, 45-62	1.6	17
39	Epoxy-Graphene UV-cured nanocomposites. <i>Polymer</i> , 2011 , 52, 4664-4669	3.9	124
38	Modification of carbon nanotubes with well-controlled fluorescent styrene-based polymers using the Diels-Alder reaction. <i>Polymer</i> , 2011 , 52, 5739-5745	3.9	12

37	Structure and properties of polylactide/natural rubber blends. <i>Materials Chemistry and Physics</i> , 2011 , 129, 823-831	4.4	202
36	Functionalised graphene sheets as effective high dielectric constant fillers. <i>Nanoscale Research Letters</i> , 2011 , 6, 508	5	91
35	Thermal conductivity of carbon nanotubes and graphene in epoxy nanofluids and nanocomposites. <i>Nanoscale Research Letters</i> , 2011 , 6, 610	5	88
34	Graphene filled polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3301-3310		596
33	In situ Foaming Evolution of Flexible Polyurethane Foam Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 971-979	2.6	42
32	Use of butylamine modified graphene sheets in polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 995-1000		92
31	Molecular dynamics of natural rubber as revealed by dielectric spectroscopy: The role of natural crosslinking. <i>Soft Matter</i> , 2010 , 6, 3636	3.6	42
30	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11252-11257	3.8	17
29	Molecular Dynamics of Natural Rubber/Layered Silicate Nanocomposites As Studied by Dielectric Relaxation Spectroscopy. <i>Macromolecules</i> , 2010 , 43, 643-651	5.5	82
28	Permanent adsorption of organic solvents in graphite oxide and its effect on the thermal exfoliation. <i>Carbon</i> , 2010 , 48, 1079-1087	10.4	90
27	Electrodeposition of transparent and conducting graphene/carbon nanotube thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2461-2466	1.6	52
26	Reactive polyurethane carbon nanotube foams and their interactions with osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 65-73	5.4	54
25	Morphology and properties of injection-moulded carbon-nanofibre poly(etheretherketone) foams. <i>Journal of Materials Science</i> , 2009 , 44, 1427-1434	4.3	13
24	Effects of functionalized carbon nanotubes in peroxide crosslinking of diene elastomers. <i>European Polymer Journal</i> , 2009 , 45, 1017-1023	5.2	17
23	Enhanced acoustic damping in flexible polyurethane foams filled with carbon nanotubes. <i>Composites Science and Technology</i> , 2009 , 69, 1564-1569	8.6	232
22	Confinement of Functionalized Graphene Sheets by Triblock Copolymers. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17973-17978	3.8	34
21	Phosphonium salt intercalated montmorillonites. <i>Applied Clay Science</i> , 2009 , 43, 27-32	5.2	41
20	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. <i>Chemistry of Materials</i> , 2009 , 21, 3433-3438	9.6	135

19	Fluid dynamics of evolving foams. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10860-6	3.6	26
18	Carbon nanotubes provide self-extinguishing grade to silicone-based foams. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3933		60
17	Effect of Nanoclay on Natural Rubber Microstructure. <i>Macromolecules</i> , 2008 , 41, 6763-6772	5.5	131
16	Carbon nanotube-enhanced polyurethane scaffolds fabricated by thermally induced phase separation. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1865		87
15	Functionalized graphene sheet filled silicone foam nanocomposites. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2221		311
14	Real-Time Crystallization of Organoclay Nanoparticle Filled Natural Rubber under Stretching. <i>Macromolecules</i> , 2008 , 41, 2295-2298	5.5	56
13	The Development of Proton Conducting Polymer Membranes for Fuel Cells Using Sulfonated Carbon Nanofibres. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 234-238	4.8	13
12	Purification of single walled carbon nanotubes: The problem with oxidation debris. <i>Chemical Physics Letters</i> , 2008 , 460, 162-167	2.5	88
11	Sulfonation of vulcanized ethylene-propylene-diene terpolymer membranes. <i>Acta Materialia</i> , 2008 , 56, 4780-4788	8.4	11
10	Effect of montmorillonite intercalant structure on the cure parameters of natural rubber. <i>European Polymer Journal</i> , 2008 , 44, 3108-3115	5.2	53
9	Physical properties of silicone foams filled with carbon nanotubes and functionalized graphene sheets. <i>European Polymer Journal</i> , 2008 , 44, 2790-2797	5.2	99
8	Particle-stabilized surfactant-free medium internal phase emulsions as templates for porous nanocomposite materials: poly-Pickering-Foams. <i>Langmuir</i> , 2007 , 23, 2398-403	4	153
7	Removal of oxidation debris from multi-walled carbon nanotubes. <i>Chemical Communications</i> , 2007 , 513-518	5.8	164
6	Carbon Nanofibers Allow Foaming of Semicrystalline Poly(ether ether ketone). <i>Advanced Materials</i> , 2005 , 17, 2864-2869	24	88
5	Heel-shoe interactions and the durability of EVA foam running-shoe midsoles. <i>Journal of Biomechanics</i> , 2004 , 37, 1379-86	2.9	131
4	Simulating the effects of long distance running on shoe midsole foam. <i>Polymer Testing</i> , 2004 , 23, 567-574	4.5	26
3	Polymer foams for personal protection: cushions, shoes and helmets. <i>Composites Science and Technology</i> , 2003 , 63, 2389-2400	8.6	106
2	Ethylene Styrene Interpolymer Foam Blends: Mechanical Properties and Sport Applications. <i>Frontiers in Forests and Global Change</i> , 2002 , 21, 237-264	1.6	5

- 1 Physical and mechanical properties of hybridized elastomeric foam based on ethylene-propylene-diene-monomer, multiwall carbon nanotube, and barium titanate. *Journal of Cellular Plastics*,0021955X2210851 1.5 1