

# Raquel Verdejo

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3855610/raquel-verdejo-publications-by-citations.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	Graphene filled polymer nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3301-3310		596
107	Multifunctional nanostructured PLA materials for packaging and tissue engineering. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 1720-1747	29.6	421
106	Functionalized graphene sheet filled silicone foam nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2221		311
105	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. <i>Carbon</i> , <b>2013</b> , 65, 156-164	10.4	272
104	Increasing the performance of dielectric elastomer actuators: A review from the materials perspective. <i>Progress in Polymer Science</i> , <b>2015</b> , 51, 188-211	29.6	264
103	Enhanced acoustic damping in flexible polyurethane foams filled with carbon nanotubes. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 1564-1569	8.6	232
102	Comparison of filler percolation and mechanical properties in graphene and carbon nanotubes filled epoxy nanocomposites. <i>European Polymer Journal</i> , <b>2013</b> , 49, 1347-1353	5.2	202
101	Structure and properties of polylactide/natural rubber blends. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 129, 823-831	4.4	202
100	Removal of oxidation debris from multi-walled carbon nanotubes. <i>Chemical Communications</i> , <b>2007</b> , 513-518		164
99	Overall performance of natural rubber/graphene nanocomposites. <i>Composites Science and Technology</i> , <b>2012</b> , 73, 40-46	8.6	153
98	Particle-stabilized surfactant-free medium internal phase emulsions as templates for porous nanocomposite materials: poly-Pickering-Foams. <i>Langmuir</i> , <b>2007</b> , 23, 2398-403	4	153
97	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3433-3438	9.6	135
96	Effect of Nanoclay on Natural Rubber Microstructure. <i>Macromolecules</i> , <b>2008</b> , 41, 6763-6772	5.5	131
95	Heel-shoe interactions and the durability of EVA foam running-shoe midsoles. <i>Journal of Biomechanics</i> , <b>2004</b> , 37, 1379-86	2.9	131
94	Epoxy-Graphene UV-cured nanocomposites. <i>Polymer</i> , <b>2011</b> , 52, 4664-4669	3.9	124
93	All-Polystyrene 3D-Printed Electrochemical Device with Embedded Carbon Nanofiber-Graphite-Polystyrene Composite Conductor. <i>Electroanalysis</i> , <b>2016</b> , 28, 1517-1523	3	111
92	Polymer foams for personal protection: cushions, shoes and helmets. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 2389-2400	8.6	106

91	Physicochemical properties of organoclay filled polylactic acid/natural rubber blend bionanocomposites. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 305-313	8.6	101
90	Physical properties of silicone foams filled with carbon nanotubes and functionalized graphene sheets. <i>European Polymer Journal</i> , <b>2008</b> , 44, 2790-2797	5.2	99
89	Use of butylamine modified graphene sheets in polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 995-1000		92
88	Functionalised graphene sheets as effective high dielectric constant fillers. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 508	5	91
87	Permanent adsorption of organic solvents in graphite oxide and its effect on the thermal exfoliation. <i>Carbon</i> , <b>2010</b> , 48, 1079-1087	10.4	90
86	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites part I. Processing and morphology. <i>Carbohydrate Polymers</i> , <b>2013</b> , 96, 611-20	10.3	88
85	Thermal conductivity of carbon nanotubes and graphene in epoxy nanofluids and nanocomposites. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 610	5	88
84	Purification of single walled carbon nanotubes: The problem with oxidation debris. <i>Chemical Physics Letters</i> , <b>2008</b> , 460, 162-167	2.5	88
83	Carbon Nanofibers Allow Foaming of Semicrystalline Poly(ether ether ketone). <i>Advanced Materials</i> , <b>2005</b> , 17, 2864-2869	24	88
82	Carbon nanotube-enhanced polyurethane scaffolds fabricated by thermally induced phase separation. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1865		87
81	Evolution of self-healing elastomers, from extrinsic to combined intrinsic mechanisms: a review. <i>Materials Horizons</i> , <b>2020</b> , 7, 2882-2902	14.4	87
80	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: properties evaluation. <i>Carbohydrate Polymers</i> , <b>2013</b> , 96, 621-7	10.3	82
79	Molecular Dynamics of Natural Rubber/Layered Silicate Nanocomposites As Studied by Dielectric Relaxation Spectroscopy. <i>Macromolecules</i> , <b>2010</b> , 43, 643-651	5.5	82
78	Towards materials with enhanced electro-mechanical response: CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /polydimethylsiloxane composites. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24705		67
77	Carbon nanotubes provide self-extinguishing grade to silicone-based foams. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3933		60
76	Synergistic effect of graphene nanoplatelets and carbon black in multifunctional EPDM nanocomposites. <i>Composites Science and Technology</i> , <b>2016</b> , 128, 123-130	8.6	58
75	Real-Time Crystallization of Organoclay Nanoparticle Filled Natural Rubber under Stretching. <i>Macromolecules</i> , <b>2008</b> , 41, 2295-2298	5.5	56
74	Reactive polyurethane carbon nanotube foams and their interactions with osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 65-73	5.4	54

73	Influence of carbon nanoparticles on the polymerization and EMI shielding properties of PU nanocomposite foams. <i>RSC Advances</i> , <b>2014</b> , 4, 7911	3.7	53
72	Effect of montmorillonite intercalant structure on the cure parameters of natural rubber. <i>European Polymer Journal</i> , <b>2008</b> , 44, 3108-3115	5.2	53
71	Electrodeposition of transparent and conducting graphene/carbon nanotube thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 2461-2466	1.6	52
70	Thermo-reversible crosslinked natural rubber: A Diels-Alder route for reuse and self-healing properties in elastomers. <i>Polymer</i> , <b>2019</b> , 175, 15-24	3.9	50
69	Cationic photocured epoxy nanocomposites filled with different carbon fillers. <i>Polymer</i> , <b>2012</b> , 53, 1831-1838	3.9	48
68	Comparing the effect of carbon-based nanofillers on the physical properties of flexible polyurethane foams. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5673-5679	4.3	47
67	Deformation mechanisms in polylactic acid/natural rubber/organoclay bionanocomposites as revealed by synchrotron X-ray scattering. <i>Soft Matter</i> , <b>2012</b> , 8, 8990	3.6	46
66	In situ Foaming Evolution of Flexible Polyurethane Foam Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 971-979	2.6	42
65	Molecular dynamics of natural rubber as revealed by dielectric spectroscopy: The role of natural crosslinking. <i>Soft Matter</i> , <b>2010</b> , 6, 3636	3.6	42
64	Phosphonium salt intercalated montmorillonites. <i>Applied Clay Science</i> , <b>2009</b> , 43, 27-32	5.2	41
63	Design of Rubber Composites with Autonomous Self-Healing Capability. <i>ACS Omega</i> , <b>2020</b> , 5, 1902-1910	3.9	39
62	Role of Vulcanizing Additives on the Segmental Dynamics of Natural Rubber. <i>Macromolecules</i> , <b>2012</b> , 45, 1070-1075	5.5	37
61	Thermally reduced graphene is a permissive material for neurons and astrocytes and de novo neurogenesis in the adult olfactory bulb in vivo. <i>Biomaterials</i> , <b>2016</b> , 82, 84-93	15.6	35
60	Confinement of Functionalized Graphene Sheets by Triblock Copolymers. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17973-17978	3.8	34
59	A comparative study on the mechanical, electrical and piezoresistive properties of polymer composites using carbon nanostructures of different topology. <i>European Polymer Journal</i> , <b>2018</b> , 99, 394-402	5.2	31
58	Molecular confinement of solid and gaseous phases of self-standing bulk nanoporous polymers inducing enhanced and unexpected physical properties. <i>Polymer</i> , <b>2017</b> , 113, 27-33	3.9	27
57	Dielectric behavior of porous PMMA: From the micrometer to the nanometer scale. <i>Polymer</i> , <b>2016</b> , 107, 302-305	3.9	27
56	Fluid dynamics of evolving foams. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 10860-6	3.6	26

55	Simulating the effects of long distance running on shoe midsole foam. <i>Polymer Testing</i> , <b>2004</b> , 23, 567-574.	4.5	26
54	Preparation and Mechanical Properties of Graphene/Carbon Fiber-Reinforced Hierarchical Polymer Composites. <i>Journal of Composites Science</i> , <b>2019</b> , 3, 30	3	25
53	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> , <b>2019</b> , 11,	4.5	25
52	Facile and Scalable One-Step Method for Amination of Graphene Using Leuckart Reaction. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6698-6705	9.6	24
51	Morphology and mechanical properties of nanostructured thermoset/block copolymer blends with carbon nanoparticles. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2015</b> , 71, 136-143	8.4	23
50	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> , <b>2018</b> , 106, 273-283	5.2	22
49	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> , <b>2016</b> , 4, 94	5.8	22
48	Customizing thermally-reduced graphene oxides for electrically conductive or mechanical reinforced epoxy nanocomposites. <i>European Polymer Journal</i> , <b>2017</b> , 93, 1-7	5.2	21
47	Synthesis of fluorinated graphene oxide by using an easy one-pot deoxyfluorination reaction. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 524, 219-226	9.3	21
46	Modeling the heat transfer by conduction of nanocellular polymers with bimodal cellular structures. <i>Polymer</i> , <b>2019</b> , 160, 126-137	3.9	21
45	Thermal and bio-disintegration properties of poly(lactic acid)/natural rubber/organoclay nanocomposites. <i>Applied Clay Science</i> , <b>2014</b> , 93-94, 78-84	5.2	20
44	Effect of hard segment content and carbon-based nanostructures on the kinetics of flexible polyurethane nanocomposite foams. <i>Polymer</i> , <b>2012</b> , 53, 4025-4032	3.9	20
43	Electro-mechanical actuation performance of SEBS/PU blends. <i>Polymer</i> , <b>2019</b> , 171, 25-33	3.9	19
42	An effective and sustainable approach for achieving self-healing in nitrile rubber. <i>European Polymer Journal</i> , <b>2020</b> , 139, 110032	5.2	18
41	Effect of carbon nanofillers on flexible polyurethane foaming from a chemical and physical perspective. <i>RSC Advances</i> , <b>2014</b> , 4, 20761	3.7	17
40	Epoxy resin curing reaction studied by proton multiple-quantum NMR. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 1324-1332	2.6	17
39	Reactive Nanocomposite Foams. <i>Frontiers in Forests and Global Change</i> , <b>2011</b> , 30, 45-62	1.6	17
38	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11252-11257	3.8	17

37	Effects of functionalized carbon nanotubes in peroxide crosslinking of diene elastomers. <i>European Polymer Journal</i> , <b>2009</b> , 45, 1017-1023	5.2	17
36	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. <i>European Polymer Journal</i> , <b>2018</b> , 101, 56-65	5.2	14
35	Sustainable mobility: The route of tires through the circular economy model. <i>Waste Management</i> , <b>2021</b> , 126, 309-322	8.6	14
34	Multifunctional Silicone Rubber Nanocomposites by Controlling the Structure and Morphology of Graphene Material. <i>Polymers</i> , <b>2019</b> , 11,	4.5	13
33	Epoxy Nanocomposites Filled with Carbon Nanoparticles. <i>Chemical Record</i> , <b>2018</b> , 18, 928-939	6.6	13
32	Morphology and properties of injection-moulded carbon-nanofibre poly(etheretherketone) foams. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 1427-1434	4.3	13
31	The Development of Proton Conducting Polymer Membranes for Fuel Cells Using Sulfonated Carbon Nanofibres. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 234-238	4.8	13
30	Modification of carbon nanotubes with well-controlled fluorescent styrene-based polymers using the Diels-Alder reaction. <i>Polymer</i> , <b>2011</b> , 52, 5739-5745	3.9	12
29	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> , <b>2021</b> , 5, 68	3	12
28	Sulfonation of vulcanized ethylene-propylene-diene terpolymer membranes. <i>Acta Materialia</i> , <b>2008</b> , 56, 4780-4788	8.4	11
27	The role of carbon nanotubes in both physical and chemical liquid-solid transition of polydimethylsiloxane. <i>European Polymer Journal</i> , <b>2013</b> , 49, 1373-1380	5.2	9
26	Bismuth complex catalysts for the in situ preparation of polycaprolactone/silicate bionanocomposites. <i>Polymer International</i> , <b>2014</b> , 63, 709-717	3.3	8
25	Coalescence analysis for evolving foams via optical flow computation on projection image sequences. <i>Journal of Synchrotron Radiation</i> , <b>2012</b> , 19, 483-91	2.4	7
24	Thermal, electrical, and sensing properties of rubber nanocomposites <b>2020</b> , 149-175		7
23	Highly Deformable Porous Electromagnetic Wave Absorber Based on Ethylene-Propylene-Diene Monomer/Multiwall Carbon Nanotube Nanocomposites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
22	In-situ cure monitoring of epoxy/graphene nanocomposites by several spectroscopic techniques. <i>Polymer Testing</i> , <b>2019</b> , 80, 106114	4.5	5
21	Ethylene-Styrene Interpolymer Foam Blends: Mechanical Properties and Sport Applications. <i>Frontiers in Forests and Global Change</i> , <b>2002</b> , 21, 237-264	1.6	5
20	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> , <b>2020</b> , 12,	4.5	5

19	Melt and solution processable novel photoluminescent polymer blends for multifaceted advanced applications. <i>Polymer</i> , <b>2021</b> , 215, 123378	3.9	5
18	SEBS-Grafted Itaconic Acid as Compatibilizer for Elastomer Nanocomposites Based on BaTiO Particles. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
17	Flexural electromechanical properties of multilayer graphene sheet/carbon nanotube/vinyl ester hybrid nanocomposites. <i>Composites Science and Technology</i> , <b>2020</b> , 194, 108164	8.6	4
16	Simple, convenient, and nondestructive electromagnetic characterization technique for composite and multiscale hybrid samples at microwave frequencies. <i>Microwave and Optical Technology Letters</i> , <b>2014</b> , 56, 504-509	1.2	4
15	Measuring self-healing in epoxy matrices: The need for standard conditions. <i>Reactive and Functional Polymers</i> , <b>2021</b> , 161, 104847	4.6	4
14	Synthesis of sustainable, lightweight and electrically conductive polymer brushes grafted multi-layer graphene oxide. <i>Polymer Testing</i> , <b>2021</b> , 93, 106986	4.5	4
13	Transport Properties of One-Step Compression Molded Epoxy Nanocomposite Foams. <i>Polymers</i> , <b>2019</b> , 11,	4.5	3
12	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> , <b>2014</b> , 52, 349-360	2.6	3
11	Vulcanization Characteristics and Curing Kinetic of Rubber/Organoclay Nanocomposites <b>2011</b> , 275-303		3
10	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> , <b>2020</b> , 57, 865-875	2.2	3
9	Elastomeric nanocomposite foams with improved properties for extreme conditions <b>2020</b> , 133-147		3
8	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> , <b>2021</b> , 235, 129-137	1.4	3
7	Stretchable, Bio-Compatible, Antioxidant and Self-Powering Adhesives from Soluble Silk Fibroin and Vegetal Polyphenols Exfoliated Graphite. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
6	Understanding the Molecular Dynamics of Dual Crosslinked Networks by Dielectric Spectroscopy. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
5	Dielectric Properties of All-Organic Coatings: Comparison of PEDOT and PANI in Epoxy Matrices. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 26	3	2
4	In-Situ Preparation of Carbonaceous Conductive Composite Materials Based on PEDOT and Biowaste for Flexible Pseudocapacitor Application. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 87	3	2
3	Physical and mechanical properties of hybridized elastomeric foam based on ethylene-propylene-diene-monomer, multiwall carbon nanotube, and barium titanate. <i>Journal of Cellular Plastics</i> , 0021955X2210851	1.5	1
2	Effect of filler content on scratch behavior and tribological performance of polyester/graphene oxide nanocomposite coating <b>2021</b> , 18, 1269-1280		0

- 1 Effect of terbium(III) species on the structure and physical properties of polyurethane (TPU).  
*Polymer*, **2021**, 233, 124209 3.9 ○