

## List of Publications by Citations

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

95 papers	5,224 citations	33 h-index	71 g-index
99 ext. papers	5,899 ext. citations	6.1 avg, IF	6.08 L-index

#	Paper	IF	Citations
95	Thermal conductivity of carbon nanotubes and their polymer nanocomposites: A review. <i>Progress in Polymer Science</i> , <b>2011</b> , 36, 914-944	29.6	1684
94	Polyhedral oligomeric silsesquioxanes (POSS) thermal degradation. <i>Thermochimica Acta</i> , <b>2006</b> , 440, 36-42.	42.9	303
93	Polypropylene-polyhedral oligomeric silsesquioxanes (POSS) nanocomposites. <i>Polymer</i> , <b>2005</b> , 46, 7855-7866	3.6	285
92	Metal functionalized POSS as fire retardants in polypropylene. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 2275-2281	4.7	189
91	Production and processing of graphene and related materials. <i>2D Materials</i> , <b>2020</b> , 7, 022001	5.9	179
90	POSS-based hybrids by melt/reactive blending. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9297		118
89	Materials engineering for surface-confined flame retardancy. <i>Materials Science and Engineering Reports</i> , <b>2014</b> , 84, 1-20	30.9	110
88	Polylactic acid and polylactic acid-based nanocomposite photooxidation. <i>Biomacromolecules</i> , <b>2010</b> , 11, 2919-26	6.9	110
87	Polypropylene-polyolsilsesquioxane blends. <i>European Polymer Journal</i> , <b>2010</b> , 46, 14-23	5.2	103
86	Polypropylene metal functionalised POSS nanocomposites: A study by thermogravimetric analysis. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 1064-1070	4.7	96
85	Mechanical characterization of polyhedral oligomeric silsesquioxane/polypropylene blends. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 935-943	2.9	90
84	Preparation, Characterization, and Properties of Novel PSMA-POSS Systems by Reactive Blending. <i>Macromolecules</i> , <b>2009</b> , 42, 6614-6623	5.5	84
83	Efficient Gas and Water Vapor Barrier Properties of Thin Poly(lactic acid) Packaging Films: Functionalization with Moisture Resistant Nafion and Clay Multilayers. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5459-5466	9.6	80
82	POSS grafting on PPgMA by one-step reactive blending. <i>Polymer</i> , <b>2009</b> , 50, 218-226	3.9	78
81	Evaluation of the charge transfer kinetics of spin-coated BiVO <sub>4</sub> thin films for sun-driven water photoelectrolysis. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 190, 66-74	21.8	77
80	Polypropylene-POSS Nanocomposites: Morphology and Crystallization Behaviour. <i>Macromolecular Symposia</i> , <b>2006</b> , 234, 59-67	0.8	76
79	Effects of nanoclay and fire retardants on fire retardancy of a polymer blend of EVA and LDPE. <i>Fire Safety Journal</i> , <b>2009</b> , 44, 504-513	3.3	70

78	Ignition mechanisms in polymers and polymer nanocomposites. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 1147-1155	3.2	68
77	Characterisation of the dispersion in polymer flame retarded nanocomposites. <i>European Polymer Journal</i> , <b>2008</b> , 44, 1631-1641	5.2	67
76	Properties of poly(lactic acid) nanocomposites based on montmorillonite, sepiolite and zirconium phosphonate. <i>EXPRESS Polymer Letters</i> , <b>2012</b> , 6, 914-926	3.4	64
75	Layer-by-layer assembly of efficient flame retardant coatings based on high aspect ratio graphene oxide and chitosan capable of preventing ignition of PU foam. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 152, 1-9	4.7	63
74	Effect of morphology and defectiveness of graphene-related materials on the electrical and thermal conductivity of their polymer nanocomposites. <i>Polymer</i> , <b>2016</b> , 102, 292-300	3.9	55
73	Silsesquioxanes: Novel compatibilizing agents for tuning the microstructure and properties of PLA/PCL immiscible blends. <i>European Polymer Journal</i> , <b>2014</b> , 58, 69-78	5.2	53
72	Synthesis and Characterisation of Metal Isobutylsilsesquioxanes and Their Role as Inorganic/Organic Nanoadditives for Enhancing Polymer Thermal Stability. <i>European Journal of Inorganic Chemistry</i> , <b>2007</b> , 2007, 585-591	2.3	53
71	Controlling the melt dripping of polyester fabrics by tuning the ionic strength of polyhedral oligomeric silsesquioxane and sodium montmorillonite coatings assembled through Layer by Layer. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 510, 142-151	9.3	49
70	Ignition of polypropylene/montmorillonite nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 2619-2626	4.7	48
69	Crossed characterisation of polymer-layered silicate (PLS) nanocomposite morphology: TEM, X-ray diffraction, rheology and solid-state nuclear magnetic resonance measurements. <i>European Polymer Journal</i> , <b>2008</b> , 44, 1642-1653	5.2	44
68	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. <i>Composites Science and Technology</i> , <b>2018</b> , 156, 95-102	8.6	43
67	Catalytic fire retardant nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 1647-1655	4.7	43
66	Graphene Oxide Exoskeleton to Produce Self-Extinguishing, Nonignitable, and Flame Resistant Flexible Foams: A Mechanically Tough Alternative to Inorganic Aerogels. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1801288	4.6	41
65	Thermal shielding performances of nano-structured intumescent coatings containing organo-modified layered double hydroxides. <i>Progress in Organic Coatings</i> , <b>2015</b> , 78, 504-510	4.8	39
64	Testing fire protective properties of intumescent coatings by in-line temperature measurements on a cone calorimeter. <i>Progress in Organic Coatings</i> , <b>2010</b> , 69, 475-480	4.8	38
63	Effect of thermal annealing on the heat transfer properties of reduced graphite oxide flakes: A nanoscale characterization via scanning thermal microscopy. <i>Carbon</i> , <b>2016</b> , 109, 390-401	10.4	37
62	Polypropylene containing Ti- and Al-polyhedral oligomeric silsesquioxanes: crystallization process and thermal properties. <i>Nanotechnology</i> , <b>2008</b> , 19, 475701	3.4	33
61	Edge-Grafted Molecular Junctions between Graphene Nanoplatelets: Applied Chemistry to Enhance Heat Transfer in Nanomaterials. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706954	15.6	32

60	Environmental issues regarding CO <sub>2</sub> and recent strategies for alternative fuels through photocatalytic reduction with titania-based materials. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 3934-3953	6.8	30
59	POSS vapor phase grafting: a novel method to modify polymer films. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 18049		25
58	Thermal decomposition investigation of ABS containing Lewis-acid type metal salts. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 129, 319-327	4.7	24
57	Supernucleation and Orientation of Poly(butylene terephthalate) Crystals in Nanocomposites Containing Highly Reduced Graphene Oxide. <i>Macromolecules</i> , <b>2017</b> , 50, 9380-9393	5.5	23
56	Effect of processing conditions on the thermal and electrical conductivity of poly (butylene terephthalate) nanocomposites prepared via ring-opening polymerization. <i>Materials and Design</i> , <b>2017</b> , 119, 124-132	8.1	22
55	Blowing-out effect in flame retarding epoxy resins: Insight by temperature measurements during forced combustion. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 131, 82-90	4.7	22
54	Morphology and conduction properties of graphite-filled immiscible PVDF/PPgMA blends. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 1572-1579	3.2	21
53	A Novel Electrostimulated Drug Delivery System Based on PLLA Composites Exploiting the Multiple Functions of Graphite Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24909-1795	9.5	21
52	Extreme Thermal Shielding Effects in Nanopaper Based on Multilayers of Aligned Clay Nanoplatelets in Cellulose Nanofiber Matrix. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600551	4.6	20
51	Effects of gas atmospheres on poly(lactic acid) film in acrylic acid plasma treatment. <i>Applied Surface Science</i> , <b>2013</b> , 283, 181-187	6.7	20
50	Fire reaction of nanoclay-doped PA6 composites reinforced with continuous glass fibers and produced by commingling technique. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 121, 1-10	4.7	19
49	Thermal bridging of graphene nanosheets via covalent molecular junctions: A non-equilibrium Green's functions-density functional tight-binding study. <i>Nano Research</i> , <b>2019</b> , 12, 791-799	10	19
48	FTIR and GCMS analysis of epoxy resin decomposition products feeding the flame during UL 94 standard flammability test. Application to the understanding of the blowing-out effect in epoxy/polyhedral silsesquioxane formulations. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 135, 271-280	6	19
47	Effect of the nature of clay on the thermo-mechanodynamical and electrical properties of epoxy/clay nanocomposites. <i>Polymer Composites</i> , <b>2011</b> , 32, 1499-1504	3	18
46	Thermally and Electrically Conductive Nanopapers from Reduced Graphene Oxide: Effect of Nanoflakes Thermal Annealing on the Film Structure and Properties. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	17
45	Novel hybrid systems based on poly(propylene-g-maleic anhydride) and Ti-POSS by direct reactive blending. <i>Polymer Degradation and Stability</i> , <b>2011</b> , 96, 1793-1798	4.7	17
44	Three Organic/Inorganic Nanolayers on Flexible Foam Allow Retaining Superior Flame Retardancy Performance Upon Mechanical Compression Cycles. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	14
43	On novel bio-hybrid system based on PLA and POSS. <i>Colloid and Polymer Science</i> , <b>2014</b> , 292, 3271-3278	2.4	13

42	In-depth radiative heat transmittance through polypropylene/nanoclay composites. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 1030-1035	4.7	13
41	On a novel method to synthesize POSS-based hybrids: An example of the preparation of TPU based system. <i>EXPRESS Polymer Letters</i> , <b>2013</b> , 7, 966-973	3.4	13
40	Ice-templated nanocellulose porous structure enhances thermochemical storage kinetics in hydrated salt/graphite composites. <i>Renewable Energy</i> , <b>2020</b> , 160, 698-706	8.1	13
39	Strong Reinforcement Effects in 2D Cellulose Nanofibril-Graphene Oxide (CNF-GO) Nanocomposites due to GO-Induced CNF Ordering. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17608-17620	12	13
38	Hydrated Salt/Graphite/Polyelectrolyte Organic-Inorganic Hybrids for Efficient Thermochemical Storage. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	12
37	Flammability and morphology of HDPE/clay nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 115, 627-634	4.1	12
36	Breaking the Nanoparticle Loading-Dispersion Dichotomy in Polymer Nanocomposites with the Art of Croissant-Making. <i>ACS Nano</i> , <b>2018</b> , 12, 9040-9050	16.7	12
35	Effects of Graphite Oxide Nanoparticle Size on the Functional Properties of Layer-by-Layer Coated Flexible Foams. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	11
34	Thermomechanical and electrical characterization of epoxy-organoclay nanocomposites. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 1037-1046	2.3	10
33	Molecular junctions for thermal transport between graphene nanoribbons: Covalent bonding vs. interdigitated chains. <i>Computational Materials Science</i> , <b>2018</b> , 142, 255-260	3.2	10
32	Novel poly(l-lactide)/poly(d-lactide)/poly(tetrahydrofuran) multiblock copolymers with a controlled architecture: Synthesis and characterization. <i>Journal of Polymer Science Part A</i> , <b>2014</b> , 52, 3269-3282	2.5	9
31	Thermal Behavior of Nanocomposites and Fire Testing Performance. <i>ACS Symposium Series</i> , <b>2009</b> , 10-24	0.4	8
30	Facile and Low Environmental Impact Approach to Prepare Thermally Conductive Nanocomposites Based on Polylactide and Graphite Nanoplatelets. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 14340-14347	8.3	8
29	Morphology and properties evolution upon ring-opening polymerization during extrusion of cyclic butylene terephthalate and graphene-related-materials into thermally conductive nanocomposites. <i>European Polymer Journal</i> , <b>2017</b> , 89, 57-66	5.2	7
28	Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 2621-2633	5.6	7
27	Properties of Graphene-Related Materials Controlling the Thermal Conductivity of Their Polymer Nanocomposites. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
26	Synthesis of silane functionalized sodium titanate nanotubes and their influence on thermal and mechanical properties of epoxy nanocomposite. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2013</b> , 210, 2284-2291	1.6	7
25	Aromatic molecular junctions between graphene sheets: a molecular dynamics screening for enhanced thermal conductance.. <i>RSC Advances</i> , <b>2019</b> , 9, 15573-15581	3.7	6

24	Polyhedral Oligomeric Silsesquioxane (POSS) Surface Grafting: A Novel Method to Enhance Polylactide Hydrolysis Resistance. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	6
23	Organosilicon Compounds as Polymer Fire Retardants <b>2014</b> , 389-418		6
22	Stereocomplexation of Poly(Lactic Acid)s on Graphite Nanoplatelets: From Functionalized Nanoparticles to Self-assembled Nanostructures. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 176	5	5
21	Graphite oxide nanocoatings as a sustainable route to extend the applicability of biopolymer-based film. <i>Applied Surface Science</i> , <b>2020</b> , 522, 146471	6.7	5
20	Comprehensive Approach to Flame-Retardancy Evaluation of Layered Silicate Nanocomposites <b>2014</b> , 441-459		5
19	Polypropylene-based ferromagnetic composites. <i>Polymer Bulletin</i> , <b>2010</b> , 65, 681-689	2.4	5
18	Decoupled trends for electrical and thermal conductivity in phase-confined CNT co-continuous blends. <i>Nanocomposites</i> , <b>2018</b> , 4, 80-86	3.4	5
17	Dielectric properties of epoxy/montmorillonite nanocomposites and nanostructured epoxy/SiO <sub>2</sub> /Montmorillonite Microcomposites. <i>Polymer Composites</i> , <b>2016</b> , 37, 115-124	3	4
16	Effect of clay dispersion methods on the mechano-dynamical and electrical properties of epoxy/organoclay nanocomposites. <i>Polymer Bulletin</i> , <b>2013</b> , 70, 489-506	2.4	4
15	Effects of Fire Retardants and Nanofillers on the Fire Toxicity. <i>ACS Symposium Series</i> , <b>2009</b> , 342-366	0.4	4
14	Dissipative Dynamics of Polymer Phononic Materials. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103424	15.6	4
13	Reworkable layered silicate-epoxy nanocomposites: synthesis, thermomechanical properties and combustion behaviour. <i>Journal of Polymer Engineering</i> , <b>2017</b> , 37, 21-30	1.4	3
12	In Situ Assembly of DNA/Graphene Oxide Nanoplates to Reduce the Fire Threat of Flexible Foams. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2101083	4.6	3
11	Bispyrene Functionalization Drives Self-Assembly of Graphite Nanoplates into Highly Efficient Heat Spreader Foils. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15509-15517	9.5	3
10	A Multiscale Investigation on the Thermal Transport in Polydimethylsiloxane Nanocomposites: Graphene vs. Borophene. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
9	A facile approach for the development of high mechanical strength 3D neuronal network scaffold based on chitosan and graphite nanoplatelets. <i>Carbohydrate Polymers</i> , <b>2021</b> , 271, 118420	10.3	3
8	Flexible and High Thermal Conductivity Composites Based on Graphite Nanoplates Paper Impregnated with Polydimethylsiloxane. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 309	3	2
7	On the Development of an Effective Method to Produce Conductive PCL Film. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2

6	Molecular Junctions Enhancing Thermal Transport within Graphene Polymer Nanocomposite: A Molecular Dynamics Study. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
5	On novel hydrogels based on poly(2-hydroxyethyl acrylate) and polycaprolactone with improved mechanical properties prepared by frontal polymerization. <i>European Polymer Journal</i> , <b>2022</b> , 171, 111226	5.2	2
4	Polyelectrolyte-Assisted Dispersions of Reduced Graphite Oxide Nanoplates in Water and Their Gas-Barrier Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 43301-43313	9.5	1
3	Synthesis and characterization of a novel star polycaprolactone to be applied in the development of graphite nanoplates-based nanopapers. <i>Reactive and Functional Polymers</i> , <b>2021</b> , 167, 105019	4.6	1
2	Impact of polymeric stabilisers on the reaction kinetics of SrBr <sub>2</sub> . <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 238, 111648	6.4	0
1	Preparation and Characterization of Novel Electrospinnable PBT/POSS Hybrid Systems Starting from c-PBT. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-8	3.2	