

Abou el kacem Qaiss

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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.

87 papers	3,823 citations	34 h-index	60 g-index
87 ext. papers	4,379 ext. citations	4.4 avg, IF	5.73 L-index

#	Paper	IF	Citations
87	Piezoelectric Epolymorph formation and properties enhancement in graphene oxide [P]VDF nanocomposite films. <i>Applied Surface Science</i> , 2012 , 258, 7668-7677	6.7	293
86	Mechanical, thermal, and rheological properties of graphene-based polypropylene nanocomposites prepared by melt mixing. <i>Polymer Composites</i> , 2012 , 33, 733-744	3	225
85	Mechanical and thermal properties of natural fibers reinforced polymer composites: Doum/low density polyethylene. <i>Materials & Design</i> , 2013 , 43, 200-205		208
84	Processing and properties of polyethylene reinforced by graphene nanosheets and carbon nanotubes. <i>Materials & Design</i> , 2013 , 44, 81-89		162
83	Mechanical properties of high density polyethylene reinforced with chemically modified coir fibers: Impact of chemical treatments. <i>Materials & Design</i> , 2012 , 37, 379-383		124
82	Structural, mechanical and thermal properties of bio-based hybrid composites from waste coir residues: Fibers and shell particles. <i>Mechanics of Materials</i> , 2016 , 93, 134-144	3.3	121
81	Mechanical and thermal properties of polypropylene reinforced with Alfa fiber under different chemical treatment. <i>Materials & Design</i> , 2012 , 35, 318-322		118
80	Tensile, flexural and torsional properties of chemically treated alfa, coir and bagasse reinforced polypropylene. <i>Composites Part B: Engineering</i> , 2013 , 47, 35-41	10	105
79	Mechanical and thermal properties of polymer composite based on natural fibers: Moroccan hemp fibers/polypropylene. <i>Materials & Design</i> , 2013 , 49, 203-208		104
78	Mechanical and thermal properties of hybrid composites: Oil-palm fiber/clay reinforced high density polyethylene. <i>Mechanics of Materials</i> , 2016 , 98, 36-43	3.3	100
77	Bio-composites based on polypropylene reinforced with Almond Shells particles: Mechanical and thermal properties. <i>Materials & Design</i> , 2013 , 51, 225-230		96
76	Morphological, Structural, Thermal and Tensile Properties of High Density Polyethylene Composites Reinforced with Treated Argan Nut Shell Particles. <i>Journal of Bionic Engineering</i> , 2015 , 12, 129-141	2.7	95
75	Evaluation of mechanical and thermal properties of Pine cone fibers reinforced compatibilized polypropylene. <i>Materials & Design</i> , 2012 , 40, 528-535		93
74	Dynamic mechanical thermal behavior analysis of doum fibers reinforced polypropylene composites. <i>Materials & Design</i> , 2013 , 51, 780-788		87
73	Effect of silane functionalization on properties of polypropylene/clay nanocomposites. <i>Composites Part B: Engineering</i> , 2018 , 146, 106-115	10	79
72	Pine cone fiber/clay hybrid composite: Mechanical and thermal properties. <i>Materials & Design</i> , 2013 , 50, 376-381		75
71	Chitosan-graphene oxide films and CO-dried porous aerogel microspheres: Interfacial interplay and stability. <i>Carbohydrate Polymers</i> , 2017 , 167, 297-305	10.3	71

70	Mechanical and thermal properties of polypropylene reinforced with almond shells particles: Impact of chemical treatments. <i>Journal of Bionic Engineering</i> , 2015 , 12, 483-494	2.7	71
69	Biocomposites based on Argan nut shell and a polymer matrix: Effect of filler content and coupling agent. <i>Carbohydrate Polymers</i> , 2016 , 143, 70-83	10.3	70
68	Fabrication, characterization and modelling of laminated composites based on woven jute fibres reinforced epoxy resin. <i>Materials & Design</i> , 2015 , 68, 104-113		62
67	Bio-composites based on polylactic acid and argan nut shell: Production and properties. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 30-42	7.9	61
66	Thermo-mechanical performances of polypropylene biocomposites based on untreated, treated and compatibilized spent coffee grounds. <i>Composites Part B: Engineering</i> , 2018 , 149, 1-11	10	58
65	Influence of coupling agent content on the properties of high density polyethylene composites reinforced with oil palm fibers. <i>Materials & Design</i> , 2014 , 63, 641-649		54
64	A comparison between bio- and mineral calcium carbonate on the properties of polypropylene composites. <i>Construction and Building Materials</i> , 2017 , 134, 549-555	6.7	51
63	Preparation and characterization of melt-blended graphene nanosheets/poly(vinylidene fluoride) nanocomposites with enhanced properties. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 4697-4707	2.9	50
62	Modification of montmorillonite by novel geminal benzimidazolium surfactant and its use for the preparation of polymer organoclay nanocomposites. <i>Composites Part B: Engineering</i> , 2013 , 51, 310-317	10	47
61	Nanocomposite films of poly(vinylidene fluoride) filled with polyvinylpyrrolidone-coated multiwalled carbon nanotubes: Enhancement of polymorph formation and tensile properties. <i>Polymer Engineering and Science</i> , 2013 , 53, 34-43	2.3	46
60	Chitosan/polyvinyl alcohol/thiabenzodiazolium-montmorillonite bio-nanocomposite films: Mechanical, morphological and antimicrobial properties. <i>Composites Part B: Engineering</i> , 2019 , 172, 103-110	10	45
59	Tomato plant residue as new renewable source for cellulose production: extraction of cellulose nanocrystals with different surface functionalities. <i>Cellulose</i> , 2020 , 27, 4287-4303	5.5	45
58	Fracture study of the composite using essential work of fracture method: PP/SEBS/gMA/E1 clay. <i>Materials & Design</i> , 2014 , 53, 741-748		43
57	Comparative study for the talc and two kinds of moroccan clay as reinforcements in polypropylene-SEBS-g-MA matrix. <i>Polymer Composites</i> , 2015 , 36, 675-684	3	42
56	Insightful understanding of the role of clay topology on the stability of biomimetic hybrid chitosan-clay thin films and CO ₂ -dried porous aerogel microspheres. <i>Carbohydrate Polymers</i> , 2016 , 146, 353-61	10.3	41
55	Structural laminated hybrid composites based on raffia and glass fibers: Effect of alkali treatment, mechanical and thermal properties. <i>Composites Part B: Engineering</i> , 2018 , 154, 128-137	10	36
54	Mechanical, thermal, and rheological properties of polypropylene hybrid composites based clay and graphite. <i>Journal of Composite Materials</i> , 2017 , 51, 3563-3576	2.7	34
53	Fabrication and Characterization of Apricot Shells Particles Reinforced High Density Polyethylene Based Bio-Composites: Mechanical and Thermal Properties. <i>Journal of Biobased Materials and Bioenergy</i> , 2014 , 8, 344-351	1.4	34

52	Hybrid composites based on polyethylene and coir/oil palm fibers. <i>Journal of Reinforced Plastics and Composites</i> , 2015 , 34, 1684-1697	2.9	32
51	Composite from Polypropylene and Henna Fiber: Structural, Mechanical and Thermal Properties. <i>Journal of Biobased Materials and Bioenergy</i> , 2014 , 8, 246-252	1.4	32
50	Effect of graphene nanosheets on the mechanical, electrical, and rheological properties of polyamide 6/acrylonitrileButadieneStyrene blends. <i>Polymer Composites</i> , 2016 , 37, 998-1006	3	30
49	Sunflower oil cake-derived cellulose nanocrystals: Extraction, physico-chemical characteristics and potential application. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 241-252	7.9	28
48	Bio-active nanocomposite films based on nanocrystalline cellulose reinforced styrylquinoxalin-grafted-chitosan: Antibacterial and mechanical properties. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 733-740	7.9	28
47	Laminated epoxy biocomposites based on clay and jute fibers. <i>Journal of Bionic Engineering</i> , 2017 , 14, 379-389	2.7	27
46	Identifying Juncus plant as viable source for the production of micro- and nano-cellulose fibers: Application for PVA composite materials development. <i>Industrial Crops and Products</i> , 2020 , 144, 112035	5.9	26
45	Mechanical and Thermal Properties of Polymer Composite Based on Natural Fibers: Moroccan Luffa Sponge/High Density Polyethylene. <i>Journal of Biobased Materials and Bioenergy</i> , 2015 , 9, 350-357	1.4	25
44	Morphological, thermal, mechanical, electrical and magnetic properties of ABS/PA6/SBR blends with Fe3O4 nano-particles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 17120-17130	2.1	24
43	Characteristics of sulfated and carboxylated cellulose nanocrystals extracted from Juncus plant stems. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 1419-1425	7.9	24
42	Copper(I) Confined in Interlayer Space of Montmorillonite: A Highly Efficient and Recyclable Catalyst for Click Reaction. <i>Catalysis Letters</i> , 2016 , 146, 136-143	2.8	23
41	Cellular polypropylene-based piezoelectric films. <i>Polymer Engineering and Science</i> , 2012 , 52, 2637-2644	2.3	22
40	Biaxial stretching of polymers using a novel and versatile stretching system. <i>Polymer Engineering and Science</i> , 2011 , 51, 1347-1353	2.3	22
39	Black phosphorus-based polyvinylidene fluoride nanocomposites: Synthesis, processing and characterization. <i>Composites Part B: Engineering</i> , 2019 , 175, 107165	10	20
38	Morphological, thermal, mechanical, and rheological properties of high density polyethylene reinforced with Illite clay. <i>Polymer Composites</i> , 2018 , 39, 1522-1533	3	19
37	Alfa fibers/clay hybrid composites based on polypropylene: Mechanical, thermal, and structural properties. <i>Journal of Thermoplastic Composite Materials</i> , 2018 , 31, 974-991	1.9	19
36	Influence of graphene oxide and graphene nanosheet on the properties of polyvinylidene fluoride nanocomposites. <i>Polymer Composites</i> , 2018 , 39, 2932-2941	3	18
35	Theoretical modeling and experiments on the piezoelectric coefficient in cellular polymer films. <i>Polymer Engineering and Science</i> , 2013 , 53, 105-111	2.3	18

34	Phosphogypsum Waste Used as Reinforcing Fillers in Polypropylene Based Composites: Structural, Mechanical and Thermal Properties. <i>Journal of Polymers and the Environment</i> , 2017 , 25, 658-666	4.5	18
33	Hybrid composites and intra-ply hybrid composites based on jute and glass fibers: A comparative study on moisture absorption and mechanical properties. <i>Materials Today Communications</i> , 2020 , 22, 100861	2.5	18
32	Extraction and Characterization of Nanocrystalline Cellulose from Doum (Chamaerops humilis) Leaves: A Potential Reinforcing Biomaterial. <i>Journal of Polymers and the Environment</i> , 2016 , 24, 356-362	4.5	18
31	Utilization of volcanic amorphous aluminosilicate rocks (perlite) as alternative materials in lightweight composites. <i>Composites Part B: Engineering</i> , 2019 , 165, 47-54	10	18
30	Effect of chitosan/modified montmorillonite coating on the antibacterial and mechanical properties of date palm fiber trays. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 316-323	7.9	17
29	N-Silylated Benzothiazolium Dye as a Coupling Agent for Polylactic Acid/Date Palm Fiber Bio-composites. <i>Journal of Polymers and the Environment</i> , 2019 , 27, 2974-2987	4.5	17
28	A Comparison between Sabra and Alfa Fibers in Rubber Biocomposites. <i>Journal of Bionic Engineering</i> , 2019 , 16, 754-767	2.7	16
27	The effect of benzothiazolium surfactant modified montmorillonite content on the properties of polyamide 6 nanocomposites. <i>Applied Clay Science</i> , 2020 , 185, 105417	5.2	16
26	Mechanical properties prediction of polypropylene/short coir fibers composites using a self-consistent approach. <i>Polymer Composites</i> , 2019 , 40, 1919-1929	3	15
25	Porosity formation by biaxial stretching in polyolefin films filled with calcium carbonate particles. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 3425-3436	2.9	15
24	Effects of bleaching and functionalization of kaolinite on the mechanical and thermal properties of polyamide 6 nanocomposites.. <i>RSC Advances</i> , 2020 , 10, 4916-4926	3.7	14
23	Fluorescent bio-nanocomposites based on chitosan reinforced hemicyanine dye-modified montmorillonite. <i>RSC Advances</i> , 2016 , 6, 111472-111481	3.7	13
22	Injection molding of short coir fiber polypropylene biocomposites: Prediction of the mold filling phase. <i>Polymer Composites</i> , 2019 , 40, 4042-4055	3	11
21	Effect of nylon 6 (PA6) addition on the properties of glass fiber reinforced acrylonitrile-butadiene-styrene. <i>Polymer Composites</i> , 2018 , 39, 14-21	3	11
20	Synthesis, characterization and in vitro antiproliferative evaluation of ionic liquids based on alkyl-substituted thiabendazolium. <i>Journal of Molecular Liquids</i> , 2019 , 282, 63-69	6	10
19	Graphene/montmorillonite hybrid nanocomposites based on polypropylene: Morphological, mechanical, and rheological properties. <i>Polymer Composites</i> , 2018 , 39, 2046-2053	3	10
18	Impact of Chemical Treatment and the Manufacturing Process on Mechanical, Thermal, and Rheological Properties of Natural Fibers-Based Composites 2017 , 225-252		10
17	Recent Advances in Polymer Recycling: A Short Review. <i>Current Organic Synthesis</i> , 2017 , 14, 171-185	1.9	10

16	Production and Characterization of High Density Polyethylene Reinforced by Eucalyptus Capsule Fibers. <i>Journal of Bionic Engineering</i> , 2018 , 15, 558-566	2.7	10
15	Synthesis, characterization and in vitro anticancer activity of thiabendazole-derived 1,2,3-triazole derivatives. <i>New Journal of Chemistry</i> , 2020 , 44, 12099-12106	3.6	9
14	Effect of iron doped titanium oxide encapsulated in alginate on photocatalytic activity for the removal of dye pollutants.. <i>RSC Advances</i> , 2020 , 10, 22311-22317	3.7	8
13	Experimental and modeling study of viscoelastic behaviour of woven dried jute under compressive stress. <i>Journal of Reinforced Plastics and Composites</i> , 2015 , 34, 405-420	2.9	8
12	Synthesis, crystal and DFT studies of N-(carboxyethyl)-2-methylbenzothiazolium bromide. <i>Journal of Molecular Structure</i> , 2019 , 1193, 303-309	3.4	7
11	Injection molding of short fiber thermoplastic bio-composites: Prediction of the fiber orientation. <i>Journal of Composite Materials</i> , 2020 , 54, 4787-4797	2.7	6
10	Recycled tires shreds based polyurethane binder: Production and characterization. <i>Mechanics of Materials</i> , 2020 , 144, 103351	3.3	6
9	A Comparative Study of Doum fiber and Shrimp Chitin Based Reinforced Low Density Polyethylene Biocomposites. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 443-451	4.5	6
8	Mechanical and thermal properties of compatibilized polypropylene reinforced by woven doum. <i>Journal of Applied Polymer Science</i> , 2013 , 130, n/a-n/a	2.9	6
7	Recent Advances in the Synthesis and Applications of Thiabendazole Derivatives: A Short Review. <i>Current Organic Chemistry</i> , 2020 , 24, 2367-2377	1.7	5
6	Synthesis, characterization and DFT studies of 6-bis(2-(thiazol-4-yl)-benzimidazol-1-yl)hexane hemihydrate crystal: Experimental and theoretical investigation. <i>Journal of Molecular Structure</i> , 2020 , 1202, 127253	3.4	4
5	Synthesis, crystal structure, spectroscopic, thermal properties and DFT calculation of a novel ethyl 2-(2-(thiazol-4-yl)-1H-benzimidazol-1-yl)acetate. <i>Journal of Molecular Structure</i> , 2020 , 1209, 127939	3.4	3
4	Characterization and numerical simulation of laminated glass fiber/polyester composites for a prosthetic running blade. <i>Journal of Reinforced Plastics and Composites</i> , 2021 , 40, 118-133	2.9	2
3	pH-indicative Films Based on Chitosan/PVA/Sepiolite and Anthocyanin from Red Cabbage: Application in Milk Packaging. <i>Journal of Bionic Engineering</i> , 2022 , 19, 837	2.7	2
2	Melt Processing of PolyVinylidene Fluoride Based Composites Containing Mineral Microparticles. <i>Key Engineering Materials</i> , 2013 , 550, 165-170	0.4	1
1	Injection Molding of PP/CaCO ₃ Hybrid Composites Toughened with SEBS-g-MA Elastomer: Morphological and Tensile Properties. <i>Key Engineering Materials</i> , 2013 , 550, 57-62	0.4	