

# Rachid Bouhfid

## List of Publications by Year in descending order

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78  
papers

2,199  
citations

257357

24  
h-index

265120

42  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2055  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress on Ag/TiO <sub>2</sub> photocatalysts: photocatalytic and bactericidal behaviors. <i>Environmental Science and Pollution Research</i> , 2021, 28, 44638-44666.	2.7	167
2	Mechanical and thermal properties of hybrid composites: Oil-palm fiber/clay reinforced high density polyethylene. <i>Mechanics of Materials</i> , 2016, 98, 36-43.	1.7	132
3	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	120
4	Effect of silane functionalization on properties of polypropylene/clay nanocomposites. <i>Composites Part B: Engineering</i> , 2018, 146, 106-115.	5.9	111
5	Micro- and nano-celluloses derived from hemp stalks and their effect as polymer reinforcing materials. <i>Carbohydrate Polymers</i> , 2020, 245, 116506.	5.1	104
6	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.	5.1	98
7	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.	5.9	86
8	Chitosan-graphene oxide films and CO <sub>2</sub> -dried porous aerogel microspheres: Interfacial interplay and stability. <i>Carbohydrate Polymers</i> , 2017, 167, 297-305.	5.1	84
9	Chitosan/polyvinyl alcohol/thiabendazolum-montmorillonite bio-nanocomposite films: Mechanical, morphological and antimicrobial properties. <i>Composites Part B: Engineering</i> , 2019, 172, 103-110.	5.9	75
10	A comparison between bio- and mineral calcium carbonate on the properties of polypropylene composites. <i>Construction and Building Materials</i> , 2017, 134, 549-555.	3.2	68
11	Mechanical performance of natural fibers-based thermosetting composites. , 2019, , 43-60.		68
12	Highly synergic adsorption/photocatalytic efficiency of Alginate/Bentonite impregnated TiO <sub>2</sub> beads for wastewater treatment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 412, 113215.	2.0	58
13	Chitosan-montmorillonite bio-based aerogel hybrid microspheres. <i>Microporous and Mesoporous Materials</i> , 2012, 152, 208-213.	2.2	57
14	Insightful understanding of the role of clay topology on the stability of biomimetic hybrid chitosan-clay thin films and CO <sub>2</sub> -dried porous aerogel microspheres. <i>Carbohydrate Polymers</i> , 2016, 146, 353-361.	5.1	49
15	Mechanical, thermal, and rheological properties of polypropylene hybrid composites based clay and graphite. <i>Journal of Composite Materials</i> , 2017, 51, 3563-3576.	1.2	41
16	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.	5.9	40
17	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.	2.4	33
18	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.	2.4	33

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19	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.	3.6	32
20	The effect of benzothiazolium surfactant modified montmorillonite content on the properties of polyamide 6 nanocomposites. <i>Applied Clay Science</i> , 2020, 185, 105417.	2.6	32
21	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.	3.6	32
22	Bioformulation of Microbial Fertilizer Based on Clay and Alginate Encapsulation. <i>Current Microbiology</i> , 2021, 78, 86-94.	1.0	32
23	Morphological, thermal, mechanical, electrical and magnetic properties of ABS/PA6/SBR blends with Fe <sub>3</sub> O <sub>4</sub> nano-particles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17120-17130.	1.1	30
24	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.	1.4	29
25	Alfa fibers/clay hybrid composites based on polypropylene. <i>Journal of Thermoplastic Composite Materials</i> , 2018, 31, 974-991.	2.6	28
26	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.	1.7	28
27	Characterization and Use of Coir, Almond, Apricot, Argan, Shells, and Wood as Reinforcement in the Polymeric Matrix in Order to Valorize These Products. , 2015, , 305-339.		26
28	Influence of graphene oxide and graphene nanosheet on the properties of polyvinylidene fluoride nanocomposites. <i>Polymer Composites</i> , 2018, 39, 2932-2941.	2.3	26
29	Extraction and Characterization of Nanocrystalline Cellulose from Doum ( <i>Chamaerops humilis</i> ) Leaves: A Potential Reinforcing Biomaterial. <i>Journal of Polymers and the Environment</i> , 2016, 24, 356-362.	2.4	25
30	Mechanical properties prediction of polypropylene/short coir fibers composites using a self-consistent approach. <i>Polymer Composites</i> , 2019, 40, 1919-1929.	2.3	25
31	Characteristics of cellulose microfibrils and nanocrystals isolated from doum tree ( <i>Chamaerops</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 2.4 25		25
32	An Efficient Synthesis of New Spiro[indolo-3(1H),2(3H)-oxadiazolyl] and 1-(Triazol-4-ylmethyl)isatin Derivatives. <i>Heterocycles</i> , 2005, 65, 2949.	0.4	23
33	Crosslinked starch-coated cellulosic papers as alternative food-packaging materials. <i>RSC Advances</i> , 2022, 12, 8536-8546.	1.7	22
34	Effect of nylon 6 (<sc>PA</sc>6) addition on the properties of glass fiber reinforced acrylonitrile-butadiene-styrene. <i>Polymer Composites</i> , 2018, 39, 14-21.	2.3	19
35	Injection molding of short coir fiber polypropylene biocomposites: Prediction of the mold filling phase. <i>Polymer Composites</i> , 2019, 40, 4042-4055.	2.3	18
36	Insight into the bionanocomposite applications on wastewater decontamination: Review. <i>Journal of Water Process Engineering</i> , 2021, 43, 102198.	2.6	17

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37	Synthesis, characterization and <i>in vitro</i> anticancer activity of thiabendazole-derived 1,2,3-triazole derivatives. <i>New Journal of Chemistry</i> , 2020, 44, 12099-12106.	1.4	16
38	Novel photocatalyst based on date palm fibers for efficient dyes removal. <i>Journal of Water Process Engineering</i> , 2021, 43, 102167.	2.6	16
39	Intercalation of nickel and cobalt thiabendazole complexes into montmorillonite. <i>Applied Clay Science</i> , 2012, 65-66, 139-142.	2.6	15
40	Graphene/montmorillonite hybrid nanocomposites based on polypropylene: Morphological, mechanical, and rheological properties. <i>Polymer Composites</i> , 2018, 39, 2046-2053.	2.3	15
41	Thermo-mechanical properties of low-cost "green" phenolic resin composites reinforced with surface modified coir fiber. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 1917-1930.	1.5	15
42	Recent Advances in Polymer Recycling: A Short Review. <i>Current Organic Synthesis</i> , 2017, 14, 171-185.	0.7	15
43	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, 837-851.	2.7	14
44	Synthesis, characterization and <i>in vitro</i> antiproliferative evaluation of ionic liquids based on alkyl-substituted thiabendazolium. <i>Journal of Molecular Liquids</i> , 2019, 282, 63-69.	2.3	12
45	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.	1.7	12
46	Assessment of thermo-mechanical, dye discoloration, and hygroscopic behavior of hybrid composites based on polypropylene/clay (illite)/TiO <sub>2</sub> . <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 2615-2628.	1.5	12
47	Photoluminescent biocomposite films of chitosan based on styrylbenzothiazolium-g-cellulose nanocrystal for anti-counterfeiting applications. <i>International Journal of Biological Macromolecules</i> , 2021, 184, 981-989.	3.6	12
48	Production and Characterization of High Density Polyethylene Reinforced by Eucalyptus Capsule Fibers. <i>Journal of Bionic Engineering</i> , 2018, 15, 558-566.	2.7	11
49	Injection molding of short fiber thermoplastic bio-composites: Prediction of the fiber orientation. <i>Journal of Composite Materials</i> , 2020, 54, 4787-4797.	1.2	11
50	Effect of fly ash and coupling agent on the structural, morphological, thermal, and mechanical properties of polyamide 6/acrylonitrile-butadiene-styrene blend. <i>Polymer Composites</i> , 2021, 42, 3518-3538.	2.3	11
51	Bio-films based on alginate/modified clay through spray drying: Mechanical, rheological, morphological, and transport properties for potential use as active food packaging. <i>International Journal of Biological Macromolecules</i> , 2022, 210, 663-668.	3.6	10
52	Efficient hybrid bionanocomposites based on iron-modified TiO <sub>2</sub> for dye degradation via an adsorption-photocatalysis synergy under UV-Visible irradiations. <i>Environmental Science and Pollution Research</i> , 2021, 28, 14018-14027.	2.7	9
53	Date Palm Fiber Extraction and Treatment. , 2020, , 75-91.		9
54	Synthesis, crystal and DFT studies of N-(carboxyethyl)-2-methylbenzothiazolium bromide. <i>Journal of Molecular Structure</i> , 2019, 1193, 303-309.	1.8	8

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55	Synthesis, characterization and DFT studies of 6-bis(2-(thiazol-4-yl)-benzimidazol-1-yl)hexane hemihydrate crystal: Experimental and theoretical investigation. Journal of Molecular Structure, 2020, 1202, 127253.	1.8	7
56	Crystal structure, DFT study and Hirshfeld surface analysis of ethyl 6-chloro-2-ethoxyquinoline-4-carboxylate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 912-916.	0.2	7
57	A Comparative Study of Doum fiber and Shrimp Chitin Based Reinforced Low Density Polyethylene Biocomposites. Journal of Polymers and the Environment, 2018, 26, 443-451.	2.4	6
58	4. Natural fiber-based biocomposites: Effect of orientation on mechanical properties. , 2019, , 49-80.		5
59	Synthesis, crystal structure, spectroscopic, thermal properties and DFT calculation of a novel ethyl 2-(2-(thiazol-4-yl)-1H-benzimidazol-1-yl)acetate. Journal of Molecular Structure, 2020, 1209, 127939.	1.8	5
60	Recent advances in the fabrication of hybrid natural fiber composites. , 2021, , 113-131.		5
61	Solid-state zwitterionic tautomerization of 2-((5-methyl-1H-pyrazol-3-yl)methyl)-1H-benzimidazole: Synthesis, characterization, DFT calculation and docking studies. Journal of Molecular Structure, 2021, 1235, 130231.	1.8	5
62	Recent Advances in the Synthesis and Applications of Thiabendazole Derivatives: A Short Review. Current Organic Chemistry, 2020, 24, 2367-2377.	0.9	5
63	Morphology control of poly(lactic) acid/polypropylene blend composite by using silanized cellulose fibers extracted from coir fibers. Cellulose, 2022, 29, 6759-6782.	2.4	5
64	Fracture surface morphologies in understanding of composite structural behavior. , 2019, , 277-293.		4
65	Active biofilms for food packaging applications. , 2021, , 65-84.		4
66	Recent Advances in the Synthesis and Applications of Thiabendazole Derivatives: A Short Review. Current Organic Chemistry, 2020, 24, 2367-2377.	0.9	3
67	Modeling of Damage Evaluation and Failure of Laminated Composite Materials. , 2021, , 101-125.		3
68	Cellulose nanocrystal (CNC): Inorganic hybrid nanocomposites. , 2021, , 181-203.		2
69	Antimicrobial coated food packaging paper from agricultural biomass. , 2021, , 35-63.		2
70	Packaging and bionanocomposites. , 2022, , 91-113.		2
71	Processing and Biomedical Applications of Polymer/Organo-modified Clay Bionanocomposites. , 2019, , 405-428.		1
72	Modeling for the process and the prediction of the thermal and mechanical behavior for the biopolymers and bio-composites. , 2021, , 193-218.		1

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73	Mechanical modeling of hybrid nanocomposites based on cellulose nanocrystals/nanofibrils and nanoparticles. , 2021, , 247-270.		1
74	Improvement of Fiber-Matrix Adhesion of Vegetable Natural Fibers by Chemical Treatment. Composites Science and Technology, 2021, , 153-177.	0.4	1
75	Rheological Properties of Hybrid Nanocomposites Based on Graphene and Other Nanoparticles. Composites Science and Technology, 2021, , 283-312.	0.4	1
76	Hybrid Nanocomposites Based on Graphene and Nano-clay: Preparation, Characterization, and Synergistic Effect. Composites Science and Technology, 2021, , 153-181.	0.4	1
77	Effect of Hybridization and Long-Term Aging on Mechanical and Rheological Properties Epoxy Laminate Composites: Case of Jute/Coir Fibres and Jute/Doum Fibres. Waste and Biomass Valorization, 0, , 1.	1.8	1
78	Rheology and crystallization of polymer nanocomposites. , 2022, , 29-47.		1