

# Fauze Ahmad Aouada

## List of Publications by Year in descending order

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66  
papers

3,141  
citations

236612

25  
h-index

161609

54  
g-index

67  
all docs

67  
docs citations

67  
times ranked

4095  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superabsorbent hydrogels based on polysaccharides for application in agriculture as soil conditioner and nutrient carrier: A review. <i>European Polymer Journal</i> , 2015, 72, 365-385.	2.6	514
2	Improved barrier and mechanical properties of novel hydroxypropyl methylcellulose edible films with chitosan/tripolyphosphate nanoparticles. <i>Journal of Food Engineering</i> , 2009, 92, 448-453.	2.7	292
3	Antimicrobial and physical-mechanical properties of pectin/papaya puree/cinnamaldehyde nanoemulsion edible composite films. <i>Food Hydrocolloids</i> , 2014, 41, 188-194.	5.6	279
4	Nanocellulose nanocomposite hydrogels: technological and environmental issues. <i>Green Chemistry</i> , 2018, 20, 2428-2448.	4.6	228
5	Nanocomposite PAAm/Methyl Cellulose/Montmorillonite Hydrogel: Evidence of Synergistic Effects for the Slow Release of Fertilizers. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7431-7439.	2.4	192
6	Preparation of chitosan nanoparticles using methacrylic acid. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 477-483.	5.0	123
7	Thermal, microstructural, and spectroscopic analysis of Ca <sup>2+</sup> alginate/clay nanocomposite hydrogel beads. <i>Journal of Molecular Liquids</i> , 2018, 265, 327-336.	2.3	99
8	New strategies in the preparation of exfoliated thermoplastic starch/montmorillonite nanocomposites. <i>Industrial Crops and Products</i> , 2011, 34, 1502-1508.	2.5	90
9	N,N,N-trimethyl chitosan nanoparticles as a vitamin carrier system. <i>Food Hydrocolloids</i> , 2012, 27, 487-493.	5.6	89
10	Chelating and antibacterial properties of chitosan nanoparticles on dentin. <i>Restorative Dentistry &amp; Endodontics</i> , 2015, 40, 195.	0.6	79
11	Preparation and Characterization of Novel Micro- and Nanocomposite Hydrogels Containing Cellulosic Fibrils. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 9433-9442.	2.4	74
12	Polyacrylamide and methylcellulose hydrogel as delivery vehicle for the controlled release of paraquat pesticide. <i>Journal of Materials Science</i> , 2010, 45, 4977-4985.	1.7	69
13	Removal of paraquat pesticide from aqueous solutions using a novel adsorbent material based on polyacrylamide and methylcellulose hydrogels. <i>Journal of Applied Polymer Science</i> , 2009, 114, 2139-2148.	1.3	68
14	Application of polysaccharide hydrogels in adsorption and controlled extended release of fertilizers processes. <i>Journal of Applied Polymer Science</i> , 2012, 123, 2291-2298.	1.3	68
15	Evaluation of the Genotoxicity of Chitosan Nanoparticles for Use in Food Packaging Films. <i>Journal of Food Science</i> , 2010, 75, N89-96.	1.5	64
16	Release of BSA from porous matrices constituted of alginate-Ca <sup>2+</sup> and PNIPAAm-interpenetrated networks. <i>Materials Science and Engineering C</i> , 2009, 29, 2319-2325.	3.8	59
17	Optical and morphological characterization of polyacrylamide hydrogel and liquid crystal systems. <i>European Polymer Journal</i> , 2005, 41, 2134-2141.	2.6	54
18	Electrochemical and mechanical properties of hydrogels based on conductive poly(3,4-ethylene Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 6.	2.3	54

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19	Thermo-sensitive IPN hydrogels composed of PNIPAAm gels supported on alginate-Ca <sup>2+</sup> with LCST tailored close to human body temperature. <i>Polymer Testing</i> , 2006, 25, 961-969.	2.3	46
20	Macro- and Micronutrient Simultaneous Slow Release from Highly Swellable Nanocomposite Hydrogels. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3133-3140.	2.4	44
21	Development of Novel Guava Puree Films Containing Chitosan Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 2711-2717.	0.9	38
22	Combining Cupuassu ( <i>Theobroma grandiflorum</i> ) Puree, Pectin, and Chitosan Nanoparticles into Novel Edible Films for Food Packaging Applications. <i>Journal of Food Science</i> , 2019, 84, 2228-2233.	1.5	35
23	Barrier and Mechanical Properties of Clay-Reinforced Polymeric Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 1323-1328.	1.9	30
24	Effect of green tea extract on gelatin-based films incorporated with lemon essential oil. <i>Journal of Food Science and Technology</i> , 2021, 58, 1-8.	1.4	28
25	Thermal analysis characterization of PAAm-co-MC hydrogels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 106, 717-724.	2.0	27
26	Preparation and characterization of hydrophilic, spectroscopic, and kinetic properties of hydrogels based on polyacrylamide and methylcellulose polysaccharide. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3004-3013.	1.3	27
27	Entrapment characteristics of hydrosoluble vitamins loaded into chitosan and N,N,N-trimethyl chitosan nanoparticles. <i>Macromolecular Research</i> , 2014, 22, 1261-1267.	1.0	27
28	Enhanced bulk and superficial hydrophobicities of starch-based bionanocomposites by addition of clay. <i>Industrial Crops and Products</i> , 2013, 50, 449-455.	2.5	25
29	Nanotechnology Applied in Agriculture: Controlled Release of Agrochemicals. , 2015, , 103-118.		24
30	A simple procedure for the preparation of laponite and thermoplastic starch nanocomposites: Structural, mechanical, and thermal characterizations. <i>Journal of Thermoplastic Composite Materials</i> , 2013, 26, 109-124.	2.6	23
31	Synthesis and Characterization of Intercalated Nanocomposites Based on Poly(methacrylic acid) Hydrogel and Nanoclay Cloisite-Na <sup>+</sup> for Possible Application in Agriculture. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5878-5883.	0.9	23
32	Birefringent hydrogels based on PAAm and lyotropic liquid crystal: Optical, morphological and hydrophilic characterization. <i>European Polymer Journal</i> , 2006, 42, 2781-2790.	2.6	21
33	Physicochemical and morphological properties of poly(acrylamide) and methylcellulose hydrogels: Effects of monomer, crosslinker and polysaccharide compositions. <i>Polymer Engineering and Science</i> , 2009, 49, 2467-2474.	1.5	21
34	Development of alginate/starch-based hydrogels crosslinked with different ions: Hydrophilic, kinetic and spectroscopic properties. <i>Materials Today Communications</i> , 2019, 21, 100636.	0.9	19
35	On the preparation and physicochemical properties of pH-responsive hydrogel nanocomposite based on poly(acid methacrylic)/laponite RDS. <i>Materials Today Communications</i> , 2020, 23, 100936.	0.9	19
36	S�ntese de hidrog�is e cin�tica de libera�o de am�nio e pot�ssio. <i>Revista Brasileira De Ciencia Do Solo</i> , 2008, 32, 1643-1649.	0.5	16

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37	Correlação entre parâmetros da cinética de intumescimento com características estruturais e hidrofílicas de hidrogéis de poli(acrilamida e metilcelulose). <i>Quimica Nova</i> , 2009, 32, 1482-1490.	0.3	14
38	Thermal and morphological characterization of highly porous nanocomposites for possible application in potassium controlled release. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2205-2212.	2.0	14
39	Recent advances on nanohybrid systems constituting clay-chitosan with organic molecules – A review. <i>Applied Clay Science</i> , 2022, 226, 106548.	2.6	14
40	Investigação do processo de absorção de água de hidrogéis de polissacarídeo: efeito da carga iônica, presença de sais, concentrações de monômero e polissacarídeo. <i>Polimeros</i> , 2012, 22, 311-317.	0.2	13
41	Performance of Gelatin Films Reinforced with Cloisite Na+ and Black Pepper Essential Oil Loaded Nanoemulsion. <i>Polymers</i> , 2021, 13, 4298.	2.0	12
42	Correlating pH and Swelling Degree Parameters to Understand the Sorption and Desorption Process of Diquat Herbicide from Nanocomposites Based on Polysaccharide and Clinoptilolite. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3389-3400.	2.4	10
43	Preparação de novos nanobiocompósitos comestíveis ativos contendo nanoemulsão de canela e pectina. <i>Polimeros</i> , 2014, 24, 486-490.	0.2	9
44	Water Absorption and Physicochemical Characterization of Novel Zeolite-PMAA-co-PAAM Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7286-7295.	0.9	9
45	Upcycling Microbial Cellulose Scraps into Nanowhiskers with Engineered Performance as Fillers in All-Cellulose Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46661-46666.	4.0	9
46	Hybrid Biodegradable Hydrogels Obtained from Nanoclay and Carboxymethylcellulose Polysaccharide: Hydrophilic, Kinetic, Spectroscopic and Morphological Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 821-827.	0.9	8
47	Hybrid Nanocomposites Containing Carboxymethylcellulose and Silver Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1946-1950.	0.9	6
48	Hydrogels Based on Chitosan and Chitosan Derivatives for Biomedical Applications. , 0, , .		6
49	Caracterização de hidrogéis condutores constituídos por PAAm e PEDOT/PSS por meio de planejamento fatorial. <i>Polimeros</i> , 2008, 18, 126-131.	0.2	5
50	POLYSACCHARIDE-BASED NANOCOMPOSITE HYDROGELS WITH ZEOLITE: EVALUATION OF THE SORPTION PROCESS OF PESTICIDE PARAQUAT. <i>Quimica Nova</i> , 2018, , .	0.3	4
51	Effect of Different Surface-Charged Lamellar Materials on Swelling Properties of Nanocomposite Hydrogels. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3311-3323.	2.4	4
52	Fabricação de filmes bionanocompósitos à base de pectina e polpa de cacau com potencial uso como embalagem para alimentos. <i>Quimica Nova</i> , 0, , .	0.3	4
53	Otimização da síntese de hidrogéis nanocompósitos intercalados para possível aplicação na área médica. <i>Quimica Nova</i> , 2016, , .	0.3	2
54	Efficiency Improvement of Cellulose Derivative Nanocomposite Using Titanium Dioxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 2206-2211.	0.9	2

#	ARTICLE	IF	CITATIONS
55	Properties, synthesis, characterization and application of hydrogel and magnetic hydrogels: A concise review. , 2021, , 437-457.		2
56	PAAm and PEDOT/PSS hydrogel as potential electroactive devices: evaluation of surface and hydrophilic properties. E-Polymers, 2008, 8, .	1.3	1
57	INFLUÊNCIA DA NANOEMULSÃO DE ÓLEO ESSENCIAL DE LIMÃO EM FILMES À BASE DE GELATINA. Quimica Nova, 2018, , .	0.3	1
58	Avaliação e caracterização de biofilme comestível de carboximetilcelulose contendo nanopartículas de quitosana e cárcuma longa. Revista Materia, 2021, 26, .	0.1	1
59	OBTAINMENT OF HYBRID COMPOSITES BASED ON HYDROGEL AND PORTLAND CEMENT. Quimica Nova, 2016, , .	0.3	1
60	The synthesis and capacitive properties of poly(3,4- ethylene dioxythiophene)/poly(styrene-sulfonate) and poly (acrylamide) conducting hydrogels. E-Polymers, 2007, 7, .	1.3	0
61	MECHANICAL AND STRUCTURAL CHARACTERIZATION OF A PDLC DEVICE BASED ON PAAm HYDROGELS AND KL-DeOH-H2O LYOTROPIC LIQUID CRYSTAL. Quimica Nova, 2014, , .	0.3	0
62	Effect of Hydrogel Nanocomposites on the Fresh and Hardened Properties of Cementitious Pastes. Macromolecular Symposia, 2020, 394, 2000047.	0.4	0
63	EFEITO DO PH, ESPESSE E CONCENTRAÇÃO IÔNICA NA ABSORÇÃO DE ÁGUA DE HIDROGELIS BIONANOCOMPOSTOS CONSTITUÍDOS DE CMC/PAAM/LAPONITA RDS. Quimica Nova, 2019, , .	0.3	0
64	Desenvolvimento de metodologia visando a obtenção de compostos estruturais para aplicação em longarinas de Aerodesigns. Journal of Experimental Techniques and Instrumentation, 2019, 2, 10-18.	0.1	0
65	Otimização de metodologia de obtenção de pastas cimentícias contendo hidrogéis. Journal of Experimental Techniques and Instrumentation, 2019, 2, 1-9.	0.1	0
66	Preparação e caracterização de biofilmes comestíveis a base de nanoestruturas poliméricas em matriz de pectina. Journal of Experimental Techniques and Instrumentation, 2019, 2, 19-25.	0.1	0