

Mohamed Zahouily

List of Publications by Year in descending order

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104
papers

3,479
citations

126907

33
h-index

161849

54
g-index

111
all docs

111
docs citations

111
times ranked

3837
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-nanocomposite films reinforced with cellulose nanocrystals: Rheology of film-forming solutions, transparency, water vapor barrier and tensile properties of films. Carbohydrate Polymers, 2015, 129, 156-167.	10.2	321
2	Processing and properties of eco-friendly bio-nanocomposite films filled with cellulose nanocrystals from sugarcane bagasse. International Journal of Biological Macromolecules, 2017, 96, 340-352.	7.5	178
3	Bio-nanocomposite films based on cellulose nanocrystals filled polyvinyl alcohol/chitosan polymer blend. Journal of Applied Polymer Science, 2015, 132, .	2.6	133
4	Response surface methodology for optimization of methylene blue adsorption onto carboxymethyl cellulose-based hydrogel beads: adsorption kinetics, isotherm, thermodynamics and reusability studies. RSC Advances, 2019, 9, 37858-37869.	3.6	113
5	Magnetic CoFe ₂ O ₄ nanoparticles supported on graphene oxide (CoFe ₂ O ₄ /GO) with high catalytic activity for peroxymonosulfate activation and degradation of rhodamine B. RSC Advances, 2018, 8, 1351-1360.	3.6	108
6	Synergistic effect of cellulose nanocrystals/graphene oxide nanosheets as functional hybrid nanofiller for enhancing properties of PVA nanocomposites. Carbohydrate Polymers, 2016, 137, 239-248.	10.2	106
7	Hydroxyapatite: new efficient catalyst for the Michael addition. Catalysis Communications, 2003, 4, 521-524.	3.3	95
8	Clean chemical synthesis of 2-amino-chromenes in water catalyzed by nanostructured diphosphate Na ₂ CaP ₂ O ₇ . Green Chemistry, 2010, 12, 2261.	9.0	89
9	Surface modification of knit polyester fabric for mechanical, electrical and UV protection properties by coating with graphene oxide, graphene and graphene/silver nanocomposites. Applied Surface Science, 2017, 414, 292-302.	6.1	80
10	Graphene oxide reinforced chitosan/polyvinylpyrrolidone polymer bio-nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	2.6	79
11	Graphene Oxide Filled Lignin/Starch Polymer Bionanocomposite: Structural, Physical, and Mechanical Studies. Journal of Agricultural and Food Chemistry, 2017, 65, 10571-10581.	5.2	72
12	A natural phosphate and doped-catalyzed Michael addition of mercaptans to α,β -unsaturated carbonyl compounds. Tetrahedron Letters, 2002, 43, 8951-8953.	1.4	69
13	Sodium modified hydroxyapatite: Highly efficient and stable solid-base catalyst for biodiesel production. Energy Conversion and Management, 2017, 149, 355-367.	9.2	68
14	Effect of calcination temperature on the structure and catalytic performance of copper-ceria mixed oxide catalysts in phenol hydroxylation. RSC Advances, 2017, 7, 12586-12597.	3.6	67
15	Fluorapatite: efficient catalyst for the Michael addition. Tetrahedron Letters, 2003, 44, 2463-2465.	1.4	56
16	Na ₂ CaP ₂ O ₇ , a new catalyst for Knoevenagel reaction. Catalysis Communications, 2001, 2, 101-104.	3.3	55
17	Efficient synthesis of chalcone derivatives catalyzed by re-usable hydroxyapatite. Applied Catalysis A: General, 2010, 374, 189-193.	4.3	55
18	Solid catalysts for the production of fine chemicals: the use of natural phosphate alone and doped base catalysts for the synthesis of unsaturated arylsulfones. Tetrahedron, 2004, 60, 1631-1635.	1.9	52

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19	Microwave-assisted synthesis of mesoporous nano-hydroxyapatite using surfactant templates. CrystEngComm, 2014, 16, 543-549.	2.6	51
20	Urea-impregnated HAP encapsulated by lignocellulosic biomass-extruded composites: A novel slow-release fertilizer. Environmental Technology and Innovation, 2019, 15, 100403.	6.1	50
21	Structure?cytotoxicity relationships for a series of HEPT derivatives. Journal of Molecular Modeling, 2002, 8, 1-7.	1.8	47
22	Palladium supported on natural phosphate: Catalyst for Suzuki coupling reactions in water. Applied Catalysis A: General, 2013, 450, 13-18.	4.3	47
23	Sodium modified fluorapatite as a sustainable solid bi-functional catalyst for biodiesel production from rapeseed oil. Renewable Energy, 2019, 133, 1295-1307.	8.9	47
24	Na ₂ CaP ₂ O ₇ , a new catalyst for Michael addition. Tetrahedron Letters, 2002, 43, 7729-7730.	1.4	45
25	A new route for the preparation of hydrophobic and antibacterial textiles fabrics using Ag-loaded graphene nanocomposite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123713.	4.7	41
26	Green synthesis of Ag/ZnO nanohybrid using sodium alginate gelation method. Ceramics International, 2017, 43, 13786-13790.	4.8	40
27	Effective removal of Cu(II) from aqueous solution over graphene oxide encapsulated carboxymethylcellulose-alginate hydrogel microspheres: towards real wastewater treatment plants. Environmental Science and Pollution Research, 2020, 27, 7476-7492.	5.3	39
28	Novel bionanocomposite films based on graphene oxide filled starch/polyacrylamide polymer blend: structural, mechanical and water barrier properties. Journal of Polymer Research, 2018, 25, 1.	2.4	37
29	Copper Loaded Hydroxyapatite Nanoparticles as eco-friendly Fenton-like catalyst to Effectively Remove Organic Dyes. Journal of Environmental Chemical Engineering, 2021, 9, 105501.	6.7	37
30	Phosphates: New Generation of Liquid-Phase Heterogeneous Catalysts in Organic Chemistry. Current Organic Chemistry, 2008, 12, 203-232.	1.6	36
31	Highly Efficient One-Pot Three-Component Synthesis of Naphthopyran Derivatives in Water Catalyzed by Phosphates. ACS Sustainable Chemistry and Engineering, 2013, 1, 1154-1159.	6.7	36
32	Aqueous-phase catalytic hydroxylation of phenol with H ₂ O ₂ by using a copper incorporated apatite nanocatalyst. RSC Advances, 2019, 9, 14132-14142.	3.6	36
33	QSAR for anti-HIV activity of HEPT derivatives. SAR and QSAR in Environmental Research, 2002, 13, 567-577.	2.2	35
34	Natural Phosphate Doped with Potassium Fluoride: An Efficient Catalyst for the Construction of a Carbon-Carbon Bond. Organic Process Research and Development, 2004, 8, 275-278.	2.7	34
35	Natural phosphate and potassium fluoride doped natural phosphate: efficient catalysts for the construction of a carbon-nitrogen bond. Tetrahedron Letters, 2004, 45, 4135-4138.	1.4	33
36	Design, synthesis, biological evaluation and molecular docking of new uracil analogs-1,2,4-oxadiazole hybrids as potential anticancer agents. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127438.	2.2	33

37	Stereoselective additions of silicon centered radical to $\hat{\pm}$ -chiral olefins: A Felkin-Anh stereoelectronic control.. Tetrahedron Letters, 1992, 33, 5511-5514.	1.4	32
38	Bi-functional modified-phosphate catalyzed the synthesis of $\hat{\pm}$ - $\hat{\pm}$ - $\hat{\pm}$ -(EE)-bis(benzylidene)-cycloalkanones: Microwave versus conventional-heating. Journal of Molecular Catalysis A, 2011, 336, 8-15.	4.8	32
39	An Eco-Friendly Paradigm for the Synthesis of $\hat{\pm}$ -Hydroxyphosphonates Using Sodium-Modified Fluorapatite under Solventless Conditions. ACS Sustainable Chemistry and Engineering, 2013, 1, 403-409.	6.7	32
40	Mechanically strong nanocomposite films based on highly filled carboxymethyl cellulose with graphene oxide. Journal of Applied Polymer Science, 2016, 133, .	2.6	32
41	Good to Excellent Diastereoselectivities in Asymmetric Radical Cyclizations of Optically Pure $\hat{\pm}$ -Alkoxy Vinyl Sulfoxides. Synlett, 1994, 1994, 366-368.	1.8	31
42	Synthesis of mesoporous nano-hydroxyapatite by using zwitterions surfactant. Materials Letters, 2013, 107, 189-193.	2.6	31
43	Natural Phosphate Supported Titania as a Novel Solid Acid Catalyst for Oleic Acid Esterification. Industrial & Engineering Chemistry Research, 2017, 56, 5821-5832.	3.7	31
44	Acyclic diastereofacial selection in radical addition.. Tetrahedron Letters, 1991, 32, 3683-3686.	1.4	29
45	Preparation of $\hat{\pm}$ -hydroxyphosphonates over phosphate catalysts. Catalysis Communications, 2008, 9, 2503-2508.	3.3	29
46	Modified fluorapatite as highly efficient catalyst for the synthesis of chalcones via Claisen-Schmidt condensation reaction. Journal of Industrial and Engineering Chemistry, 2016, 39, 218-225.	5.8	29
47	Highly efficient catalytic/sonocatalytic reduction of 4-nitrophenol and antibacterial activity through a bifunctional Ag/ZnO nanohybrid material prepared via a sodium alginate method. Nanoscale Advances, 2019, 1, 3151-3163.	4.6	29
48	Surface modification of highly hydrophobic polyester fabric coated with octadecylamine-functionalized graphene nanosheets. RSC Advances, 2020, 10, 24941-24950.	3.6	29
49	Synthesis of urea-containing sodium alginate-g-poly(acrylic acid-co-acrylamide) superabsorbent-fertilizer hydrogel reinforced with carboxylated cellulose nanocrystals for efficient water and nitrogen utilization. Journal of Environmental Chemical Engineering, 2022, 10, 108282.	6.7	29
50	A mild and efficient method for the protection of carbonyl compounds as dithioacetals, dithiolanes and dithianes catalysed by iodine supported on natural phosphate. Journal of Molecular Catalysis A, 2005, 233, 43-47.	4.8	25
51	Na ₂ CaP ₂ O ₇ a new catalyst for the synthesis of $\hat{\pm}$ -amino phosphonates under solvent-free conditions at room temperature. Comptes Rendus Chimie, 2005, 8, 1954-1959.	0.5	25
52	Efficient conversion of aldehydes and ketones into oximes using a nanostructured pyrophosphate catalyst in a solvent-free process. Catalysis Communications, 2012, 29, 53-57.	3.3	24
53	Octadecylamine as chemical modifier for tuned hydrophobicity of surface modified cellulose: toward organophilic cellulose nanocrystals. Cellulose, 2021, 28, 7717-7734.	4.9	24
54	Biodiesel production from rapeseed oil and low free fatty acid waste cooking oil using a cesium modified natural phosphate catalyst. RSC Advances, 2020, 10, 41065-41077.	3.6	23

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55	Structure-toxicity relationships study of a series of organophosphorus insecticides. Journal of Molecular Modeling, 2002, 8, 168-172.	1.8	22
56	Natural phosphate and potassium fluoride doped natural phosphate catalysed simple one-pot synthesis of α -amino phosphonates under solvent-free conditions at room temperature. Catalysis Communications, 2007, 8, 225-230.	3.3	21
57	Design, synthesis, biological evaluation and molecular docking of new 1,3,4-oxadiazole homonucleosides and their double-headed analogs as antitumor agents. Bioorganic Chemistry, 2021, 108, 104558.	4.1	19
58	Discovery of novel furo[2,3- <i>c</i>]pyrimidin-2-yl-1,3,4-oxadiazole hybrid derivatives as dual antiviral and anticancer agents that induce apoptosis. Archiv Der Pharmazie, 2021, 354, e2100146.	4.1	19
59	Uncatalysed Preparation of α -Amino Phosphonates under Solvent Free Conditions. Journal of Chemical Research, 2005, 2005, 324-327.	1.3	18
60	Diastereoselective radical alkylations of alkyl aryl sulfoxides. Tetrahedron Letters, 1996, 37, 8387-8390.	1.4	17
61	Sulfoxides in radical chemistry. High 1,2-asymmetric induction in radical cyclizations. Tetrahedron Letters, 1999, 40, 495-498.	1.4	16
62	Lewis Acid-Modified Natural Phosphate: New Catalysts for the One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1H)-one. Synthetic Communications, 2005, 35, 2561-2568.	2.1	16
63	Organophilic graphene nanosheets as a promising nanofiller for bio-based polyurethane nanocomposites: investigation of the thermal, barrier and mechanical properties. New Journal of Chemistry, 2019, 43, 15659-15672.	2.8	16
64	Na ₂ CaP ₂ O ₇ , a new catalyst for the synthesis of unsaturated arylsulfones. Tetrahedron Letters, 2003, 44, 3255-3257.	1.4	15
65	Iron oxide encapsulated by copper-apatite: an efficient magnetic nanocatalyst for <i>N</i> -arylation of imidazole with boronic acid. RSC Advances, 2019, 9, 36471-36478.	3.6	15
66	Natural microphosphate as a catalyst for Knoevenagel condensation: specific surface effect. Reaction Kinetics and Catalysis Letters, 2003, 78, 129-133.	0.6	14
67	QSAR for anti-malarial activity of 2-aziridinyl and 2,3-bis(aziridinyl)-1,4-naphthoquinonyl sulfonate and acylate derivatives. Journal of Molecular Modeling, 2006, 12, 398-405.	1.8	14
68	Design, synthesis, chemical characterization, biological evaluation, and docking study of new 1,3,4-oxadiazole homonucleoside analogs. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 1088-1107.	1.1	14
69	Rapid and Efficient Access to Meso-2,5-cis-disubstituted Pyrrolidines by Double Aza-Michael Reactions of Chiral Primary Amines. Heterocycles, 2007, 73, 751.	0.7	13
70	Remarkable Catalytic Activity of Sodium-Modified-Hydroxyapatite in the Synthesis of α -Hydroxyphosphonates. Current Organic Chemistry, 2010, 14, 1517-1522.	1.6	13
71	Eco-friendly approach to access of quinoxaline derivatives using nanostructured pyrophosphate Na ₂ PdP ₂ O ₇ as a new, efficient and reusable heterogeneous catalyst. BMC Chemistry, 2020, 14, 6.	3.8	13
72	Smart designing of new hybrid materials based on brushite-alginate and monetite-alginate microspheres: Bio-inspired for sequential nucleation and growth. Materials Science and Engineering C, 2014, 35, 341-346.	7.3	12

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73	Supercritical CO ₂ drying of alginate/zinc hydrogels: a green and facile route to prepare ZnO foam structures and ZnO nanoparticles. RSC Advances, 2018, 8, 20737-20747.	3.6	12
74	HMDS/KI a simple, a cheap and efficient catalyst for the one-pot synthesis of <i>N</i> -functionalized pyrimidines. Synthetic Communications, 2019, 49, 1802-1812.	2.1	12
75	Tunable physicochemical properties of lignin and rapeseed oil-based polyurethane coatings with tailored release property of coated NPK fertilizer. Progress in Organic Coatings, 2022, 170, 106982.	3.9	12
76	Sodium/Fluorapatite as a New Solid Support for the Synthesis of α,β -Unsaturated Arylsulfones. Catalysis Letters, 2004, 96, 57-61.	2.6	11
77	Oxidation of Benzylic Alcohols into Aldehydes Under Solvent-Free Microwave Irradiation Using New Catalyst-Support System. Current Organic Chemistry, 2013, 17, 72-78.	1.6	11
78	Nanostructured Pyrophosphate Na ₂ PdP ₂ O ₇ Catalyzed Suzuki-Miyaura Cross-Coupling Under Microwave Irradiation. Applied Organometallic Chemistry, 2018, 32, e4232.	3.5	11
79	A novel approach for the synthesis of nanostructured Ag ₃ PO ₄ from phosphate rock: high catalytic and antibacterial activities. BMC Chemistry, 2021, 15, 42.	3.8	9
80	One-Pot Synthesis of Antiviral Acyclovir and Other Nucleosides Derivatives Using Doped Natural Phosphate as Lewis Acid Catalyst. Nucleosides, Nucleotides and Nucleic Acids, 2008, 27, 1107-1112.	1.1	8
81	Nano-Structured Pyrophosphate Na ₂ P ₂ O ₇ as Catalyst for Selective Synthesis of 1,2-Disubstituted Benzimidazoles in Pure Water. Current Organic Chemistry, 2015, 19, 2132-2140.	1.6	8
82	Natural Phosphate Modified with Sodium Nitrate: New Efficient Catalyst for the Construction of a Carbon-Sulfur and Carbon-Nitrogen Bonds. Letters in Organic Chemistry, 2005, 2, 354-359.	0.5	8
83	Nanostructured Na ₂ CaP ₂ O ₇ : A New and Efficient Catalyst for One-Pot Synthesis of 2-Amino-3-Cyanopyridine Derivatives and Evaluation of Their Antibacterial Activity. Applied Sciences (Switzerland), 2022, 12, 5487.	2.5	8
84	Tunable Structure of Zirconia Nanoparticles by Biopolymer Gelation: Design, Synthesis and Characterization. European Journal of Inorganic Chemistry, 2012, 2012, 5465-5469.	2.0	7
85	Three Components Coupling Catalysed by Na ₂ CaP ₂ O ₇ : Synthesis of α -Amino Phosphonates Under Solvent-Free Conditions at Room Temperature. Letters in Organic Chemistry, 2005, 2, 428-432.	0.5	5
86	Octadecylamine-functionalized cellulose nanocrystals as durable superhydrophobic surface modifier for polyester coating: Towards oil/water separation. Results in Surfaces and Interfaces, 2022, 8, 100061.	2.4	5
87	Natural Phosphate and Potassium Fluoride Doped Natural Phosphate as New Catalysts for the Vilsmeier-Haack type Reaction. Journal of Chemical Research, 2006, 2006, 34-36.	1.3	4
88	Experimental Design-Based Response Surface Methodology Optimization for Synthesis of α -Mercapto Carbonyl Derivatives as Antimycobacterial Drugs Catalyzed by Calcium Pyrophosphate. International Journal of Medicinal Chemistry, 2014, 2014, 1-5.	2.2	4
89	A Green and Efficient Protocol for the Synthesis of Phenylhydrazone Derivatives Catalyzed by Nanostructured Diphosphate Na ₂ CaP ₂ O ₇ and Screening of Their Antibacterial Activity. ChemistrySelect, 2021, 6, 1366-1371.	1.5	4
90	Natural Phosphate Modified with Lithium Nitrate: A New Efficient Catalyst for the Construction of Carbon-Carbon, Carbon-Sulfur, and Carbon-Nitrogen Bonds. Phosphorus, Sulfur and Silicon and the Related Elements, 2007, 182, 1203-1217.	1.6	3

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91	Exploring QSAR of non-nucleoside reverse transcriptase inhibitors by artificial neural networks: HEPT derivatives. <i>Arkivoc</i> , 2007, 2007, 245-256.	0.5	3
92	Recent Progress in Polysaccharide-Based Hydrogel Beads as Adsorbent for Water Pollution Remediation. <i>Springer Series in Materials Science</i> , 2022, , 55-88.	0.6	3
93	Quantitative structure?diastereoselectivity relationships for arylsulfoxide derivatives in radical chemistry. <i>Journal of Molecular Modeling</i> , 2003, 9, 242-247.	1.8	2
94	Nanostructured Zirconium Pyrophosphate Catalyzed Diastereoselective Synthesis of β -Amino Ketones via One-Pot Three-Component Mannich Reaction. <i>Catalysis Letters</i> , 2018, 148, 699-711.	2.6	2
95	A Quantitative Structure-Activity Relationship Model. <i>Chemical Product and Process Modeling</i> , 2008, 3, .	0.9	1
96	QSAR study of 1-(3, 3-diphenylpropyl)-piperidinyl amides and ureas using genetic algorithms and artificial neural networks. <i>International Journal of Bioinformatics Research and Applications</i> , 2016, 12, 116.	0.2	1
97	Na ₂ CaP ₂ O ₇ , a New Catalyst for Michael Addition.. <i>ChemInform</i> , 2003, 34, no-no.	0.0	0
98	A Natural Phosphate and Doped-Catalyzed Michael Addition of Mercaptans to α,β -Unsaturated Carbonyl Compounds.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
99	Fluoroapatite: Efficient Catalyst for the Michael Addition.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
100	Na ₂ CaP ₂ O ₇ , a New Catalyst for the Synthesis of Unsaturated Arylsulfones.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
101	Solid Catalysts for the Production of Fine Chemicals: The Use of Natural Phosphate Alone and Doped Base Catalysts for the Synthesis of Unsaturated Arylsulfones.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
102	Natural Phosphate and Potassium Fluoride Doped Natural Phosphate: Efficient Catalysts for the Construction of a Carbon-Nitrogen Bond.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
103	Lewis Acid-Doped Natural Phosphate: New Catalysts for the One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1H)-one.. <i>ChemInform</i> , 2006, 37, no.	0.0	0
104	Hydroxyapatite-Based Materials for Environmental Remediation. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2022, , 55-100.	1.1	0