

Maguy Jaber

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

3,506
citations

117625

34
h-index

189892

50
g-index

125
all docs

125
docs citations

125
times ranked

4018
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanosized microporous crystals: emerging applications. <i>Chemical Society Reviews</i> , 2015, 44, 7207-7233.	38.1	291
2	Elaboration and characterisation of new mesoporous materials from diatomite and charcoal. <i>Microporous and Mesoporous Materials</i> , 2008, 107, 219-226.	4.4	102
3	Framework Stabilization of Ge-Rich Zeolites via Postsynthesis Alumination. <i>Journal of the American Chemical Society</i> , 2009, 131, 16580-16586.	13.7	95
4	Green biosorbents based on chitosan-montmorillonite beads for anionic dye removal. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3309-3318.	6.7	89
5	The Mosaic Structure of Zeolite Crystals. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15049-15052.	13.8	88
6	Cysteine-montmorillonite composites for heavy metal cation complexation: A combined experimental and theoretical study. <i>Chemical Engineering Journal</i> , 2017, 314, 406-417.	12.7	68
7	Adsorption and photophysical properties of fluorescent dyes over montmorillonite and saponite modified by surfactant. <i>Chemosphere</i> , 2017, 184, 1355-1361.	8.2	67
8	Monitoring diclofenac adsorption by organophilic alkylpyridinium bentonites. <i>Chemosphere</i> , 2020, 242, 125109.	8.2	63
9	Selectivities in Adsorption and Peptidic Condensation in the (Arginine and Glutamic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 42	3.1	60
10	BSA and lysozyme adsorption on homoionic montmorillonite: Influence of the interlayer cation. <i>Applied Clay Science</i> , 2014, 95, 396-402.	5.2	59
11	New pigments based on carminic acid and smectites: A molecular investigation. <i>Dyes and Pigments</i> , 2019, 160, 971-982.	3.7	56
12	Organoclays used as colloidal and rheological additives in oil-based drilling fluids: An overview. <i>Applied Clay Science</i> , 2019, 177, 63-81.	5.2	56
13	A comparative study of the catalysis of peptide bond formation by oxide surfaces. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13371.	2.8	55
14	A New Nanocomposite: L-DOPA/Laponite. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 85-88.	4.6	54
15	Heavy Metal Retention by Organoclays: Synthesis, Applications, and Retention Mechanism. <i>Chemistry of Materials</i> , 2005, 17, 5275-5281.	6.7	53
16	Effect of Nontronite Smectite Clay on the Chemical Evolution of Several Organic Molecules under Simulated Martian Surface Ultraviolet Radiation Conditions. <i>Astrobiology</i> , 2015, 15, 221-237.	3.0	49
17	Amino hydroxyapatite/chitosan hybrids reticulated with glutaraldehyde at different pH values and their use for diclofenac removal. <i>Carbohydrate Polymers</i> , 2020, 236, 116036.	10.2	48
18	A new Al,Mg-organoclay. <i>New Journal of Chemistry</i> , 2002, 26, 1597-1600.	2.8	47

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19	Laponite and hybrid surfactant/laponite particles processed as spheres by spray-drying. <i>New Journal of Chemistry</i> , 2009, 33, 1116.	2.8	47
20	Selective Uptake of Alkaline Earth Metals by Cyanobacteria Forming Intracellular Carbonates. <i>Environmental Science & Technology</i> , 2016, 50, 11654-11662.	10.0	47
21	When anthraquinone dyes meet pillared montmorillonite: Stability or fading upon exposure to light?. <i>Dyes and Pigments</i> , 2018, 159, 384-394.	3.7	47
22	Enhancing the rheological properties and thermal stability of oil-based drilling fluids by synergetic use of organo-montmorillonite and organo-sepiolite. <i>Applied Clay Science</i> , 2018, 161, 505-512.	5.2	47
23	Physico-chemical characterization of lake pigments based on montmorillonite and carminic acid. <i>Applied Clay Science</i> , 2016, 130, 12-17.	5.2	46
24	In vitro synthesis of amorphous Mg-, Ca-, Sr- and Ba-carbonates: What do we learn about intracellular calcification by cyanobacteria?. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 161, 36-49.	3.9	44
25	Structure, orientation and stability of lysozyme confined in layered materials. <i>Soft Matter</i> , 2013, 9, 3188.	2.7	42
26	Cyanobacterial formation of intracellular Ca ²⁺ carbonates in undersaturated solutions. <i>Geobiology</i> , 2018, 16, 49-61.	2.4	42
27	Organophilic bentonites obtained by microwave heating as adsorbents for anionic dyes. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7080-7090.	6.7	42
28	Glutamic Acid Adsorption and Transformations on Silica. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21813-21825.	3.1	41
29	Thiabendazole/bentonites hybrids as controlled release systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 249-255.	5.0	40
30	Synthesis, characterization and applications of 2:1 phyllosilicates and organophyllosilicates: Contribution of fluoride to study the octahedral sheet. <i>Microporous and Mesoporous Materials</i> , 2008, 107, 121-127.	4.4	39
31	Synthesis of new lamellar inorganic-organic talc-like hybrids. <i>New Journal of Chemistry</i> , 2008, 32, 407-412.	2.8	38
32	Phosphoribosyl Pyrophosphate: A Molecular Vestige of the Origin of Life on Minerals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7920-7923.	13.8	37
33	Formation of organoclays by a one step synthesis. <i>Solid State Sciences</i> , 2005, 7, 610-615.	3.2	36
34	Inorganic Phosphate and Nucleotides on Silica Surface: Condensation, Dismutation, and Phosphorylation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12579-12590.	3.1	36
35	Comparative study on the structures and properties of organo-montmorillonite and organo-palygorskite in oil-based drilling fluids. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 248-257.	5.8	36
36	Formation of Activated Biomolecules by Condensation on Mineral Surfaces – A Comparison of Peptide Bond Formation and Phosphate Condensation. <i>Origins of Life and Evolution of Biospheres</i> , 2013, 43, 429-443.	1.9	35

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37	Seeds-induced fluoride media synthesis of nanosized zeolite Beta crystals. <i>Microporous and Mesoporous Materials</i> , 2013, 177, 127-134.	4.4	35
38	Proton irradiation: a key to the challenge of N-glycosidic bond formation in a prebiotic context. <i>Scientific Reports</i> , 2017, 7, 14709.	3.3	35
39	Fate of L-DOPA in the Presence of Inorganic Matrices: Vectorization or Composite Material Formation?. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19216-19225.	3.1	33
40	Structural studies of adsorbed protein (betalactoglobulin) on natural clay (montmorillonite). <i>RSC Advances</i> , 2014, 4, 61096-61103.	3.6	31
41	Dual role of layered double hydroxide nanocomposites on antibacterial activity and degradation of tetracycline and oxytetracycline. <i>Chemosphere</i> , 2018, 206, 175-183.	8.2	31
42	Vanadium Oxide Foams: An Insight into the Structure of the Vanadium Oxide Walls. <i>Chemistry of Materials</i> , 2005, 17, 6395-6402.	6.7	30
43	A new durable pigment with hydrophobic surface based on natural nanotubes and indigo: Interactions and stability. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 204-217.	9.4	30
44	Saponite-anthocyanin derivatives: The role of organoclays in pigment photostability. <i>Applied Clay Science</i> , 2020, 191, 105604.	5.2	29
45	New range of Al-Mg organoclays with tailored hydrophobicity: incorporation of fluoride as a local probe to study the octahedral character. <i>Microporous and Mesoporous Materials</i> , 2003, 65, 155-163.	4.4	28
46	Functionalized bentonites for dye adsorption: Depollution and production of new pigments. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103333.	6.7	28
47	Influence of phyllosilicates on the hydrothermal alteration of organic matter in asteroids: Experimental perspectives. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 150-166.	3.9	28
48	Dressing protective clothing: stabilizing alizarin/halloysite hybrid pigment and beyond. <i>Dyes and Pigments</i> , 2019, 166, 32-41.	3.7	27
49	Microwave bentonite silylation for dye removal: Influence of the solvent. <i>Applied Clay Science</i> , 2019, 168, 478-487.	5.2	27
50	Thermal conductivity of heat treated mesoporous silica particles. <i>Microporous and Mesoporous Materials</i> , 2014, 190, 109-116.	4.4	26
51	Influence du milieu de synthèse sur la cristallisation de saponite : proposition de mécanisme réactionnel en milieux acide et basique. <i>Comptes Rendus Chimie</i> , 2005, 8, 229-234.	0.5	25
52	Adsorption of L-DOPA Intercalated in Hydrated Na-Saponite Clay: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26414-26421.	3.1	25
53	Mn-analcime: Synthesis, characterization and application to cyclohexene oxidation. <i>Microporous and Mesoporous Materials</i> , 2014, 196, 158-164.	4.4	25
54	Fluorescence Quenching of Sulfo-Rhodamine Dye over Graphene Oxide and Boron Nitride Nanosheets. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2125-2130.	2.0	25

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55	Influence of acid–base properties of Mg-based catalysts on transesterification: role of magnesium silicate hydrate formation. <i>Catalysis Science and Technology</i> , 2017, 7, 1701-1712.	4.1	25
56	Analysis of carbon and nitrogen signatures with laser-induced breakdown spectroscopy; the quest for organics under Mars-like conditions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 131, 8-17.	2.9	25
57	Potential Role of Inorganic Confined Environments in Prebiotic Phosphorylation. <i>Life</i> , 2018, 8, 7.	2.4	25
58	Impact of Phyllosilicates on Amino Acid Formation under Asteroidal Conditions. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1398-1407.	2.7	25
59	Mercaptopropyl Al–Mg phyllosilicate: Synthesis and Characterization by XRD, IR, and NMR. <i>Chemistry Letters</i> , 2002, 31, 954-955.	1.3	24
60	Zn-doped mesoporous hydroxyapatites and their antimicrobial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 198, 111471.	5.0	23
61	Ex Situ X-ray Diffraction, X-ray Absorption Near Edge Structure, Electron Spin Resonance, and Transmission Electron Microscopy Study of the Hydrothermal Crystallization of Vanadium Oxide Nanotubes: An Insight into the Mechanism of Formation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25126-25136.	3.1	22
62	Revisiting the identification of commercial and historical green earth pigments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 584, 124035.	4.7	22
63	Stabilization of ribofuranose by a mineral surface. <i>Carbohydrate Research</i> , 2015, 402, 241-244.	2.3	21
64	The versatility of montmorillonite in water remediation using adsorption: Current studies and challenges in drug removal. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107341.	6.7	21
65	Silylation of leached-vermiculites following reaction with imidazole and copper sorption behavior. <i>Journal of Hazardous Materials</i> , 2016, 306, 406-418.	12.4	20
66	A 19th Century ‘Ideal’ Oil Paint Medium: A Complex Hybrid Organic–Inorganic Gel. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1619-1623.	13.8	20
67	Inorganic-organic hybrid pigments based on carminic acid and clay minerals. <i>Dyes and Pigments</i> , 2021, 190, 109306.	3.7	20
68	Green Nanocomposites: Synthesis and Characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3207-3213.	0.9	19
69	Mesoporous calcium phosphate using casein as a template: Application to bovine serum albumin sorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 480-487.	5.0	19
70	Thermal analysis of carbonate pigments and linseed oil to optimize CO ₂ extraction for radiocarbon dating of lead white paintings. <i>Microchemical Journal</i> , 2020, 154, 104637.	4.5	19
71	Modulating the structure of organofunctionalized hydroxyapatite/tripolyphosphate/chitosan spheres for dye removal. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103980.	6.7	19
72	Characterization of Phosphate Species on Hydrated Anatase TiO ₂ Surfaces. <i>Langmuir</i> , 2016, 32, 997-1008.	3.5	18

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73	Experimental clues for detecting biosignatures on Mars. <i>Geochemical Perspectives Letters</i> , 0, , 28-33.	5.0	17
74	Contribution to the understanding of the formation mechanism of bimodal mesoporous MCM41-type silica with large defect cavities. <i>Microporous and Mesoporous Materials</i> , 2012, 153, 217-226.	4.4	16
75	Phosphoribosyl Pyrophosphate: A Molecular Vestige of the Origin of Life on Minerals. <i>Angewandte Chemie</i> , 2017, 129, 8028-8031.	2.0	16
76	Iron(III) Oxide Nanoparticles as Catalysts for the Formation of Linear Glycine Peptides. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 198-211.	2.0	16
77	Going through the wine fining: Intimate dialogue between organics and clays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 166, 79-88.	5.0	16
78	The Photochemistry on Space Station (PSS) Experiment: Organic Matter under Mars-like Surface UV Radiation Conditions in Low Earth Orbit. <i>Astrobiology</i> , 2019, 19, 1037-1052.	3.0	16
79	Understanding the interactions between ranitidine and magadiite: Influence of the interlayer cation. <i>Chemosphere</i> , 2019, 222, 980-990.	8.2	16
80	One Step up the Ladder of Prebiotic Complexity: Formation of Nonrandom Linear Polypeptides from Binary Systems of Amino Acids on Silica. <i>Chemistry - A European Journal</i> , 2019, 25, 1275-1285.	3.3	16
81	A comparative study of alanine adsorption and condensation to peptides in two clay minerals. <i>Applied Clay Science</i> , 2020, 192, 105617.	5.2	16
82	Synthesis of Clay Minerals. <i>Developments in Clay Science</i> , 2013, 5, 223-241.	0.5	15
83	Thermal Behavior of α -D-Ribose Adsorbed on Silica: Effect of Inorganic Salt Coadsorption and Significance for Prebiotic Chemistry. <i>Chemistry - A European Journal</i> , 2016, 22, 15834-15846.	3.3	15
84	Saponite-anthocyanin pigments: Slipping between the sheets. <i>Microporous and Mesoporous Materials</i> , 2020, 300, 110148.	4.4	15
85	When RNA meets montmorillonite: Influence of the pH and divalent cations. <i>Applied Clay Science</i> , 2021, 214, 106234.	5.2	15
86	Layered metal (II) and silico-phosphonate with ion exchange properties. <i>Solid State Sciences</i> , 2007, 9, 144-148.	3.2	14
87	Melanin Polymerization Held in Check: A Composite of Dihydroxyphenylalanine with Zeolite Beta. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8736-8747.	3.1	13
88	New Insights into the Structure and Degradation of Alizarin Lake Pigments: Input of the Surface Study Approach. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12370-12380.	3.1	13
89	Synthesis of texturally biphasic mesoporous carbon-silica composites and carbons. <i>Microporous and Mesoporous Materials</i> , 2013, 173, 53-63.	4.4	12
90	Non-biological selectivity in amino acids polymerization on TiO ₂ nanoparticles. <i>Amino Acids</i> , 2013, 45, 403-406.	2.7	12

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91	Direct grafting of ethylene sulfide onto silicic acid magadiite. <i>Microporous and Mesoporous Materials</i> , 2014, 196, 292-299.	4.4	12
92	The degradation of organic compounds impacts the crystallization of clay minerals and vice versa. <i>Scientific Reports</i> , 2019, 9, 20251.	3.3	12
93	The Interaction between Surfactants and Montmorillonite and its Influence on the Properties of Organo-Montmorillonite in Oil-Based Drilling Fluids. <i>Clays and Clay Minerals</i> , 2019, 67, 190-208.	1.3	11
94	Through alizarin-hectorite pigments: Influence of organofunctionalization on fading. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 587, 124323.	4.7	11
95	Abiotic formation of organic biomorphs under diagenetic conditions. <i>Geochemical Perspectives Letters</i> , 0, 16, 40-46.	5.0	11
96	New lamellar Si-Al inorganic-organic hybrid material. <i>Journal of Materials Science</i> , 2004, 39, 1489-1490.	3.7	10
97	How the acido-basic properties of Mg silicates and clays govern the catalytic mechanism of transesterification reactions. <i>Catalysis Science and Technology</i> , 2019, 9, 6072-6084.	4.1	10
98	Rapid and Direct Synthesis of Spherical Organotalc. <i>Clays and Clay Minerals</i> , 2009, 57, 35-39.	1.3	9
99	Aerosol-assisted self-assembly of hybrid Layered Double Hydroxide particles into spherical architectures. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 566-572.	9.4	9
100	Protein adsorption on clay minerals. <i>Developments in Clay Science</i> , 2018, , 255-288.	0.5	9
101	Influence of the nature of the gas phase on the degradation of RNA during fossilization processes. <i>Applied Clay Science</i> , 2020, 191, 105616.	5.2	8
102	UV Irradiation and Near Infrared Characterization of Laboratory Mars Soil Analog Samples. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	8
103	Confinement and Time Immemorial: Prebiotic Synthesis of Nucleotides on a Porous Mineral Nanoreactor. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4192-4196.	4.6	6
104	Organoclays. , 2009, , 31-49.		5
105	Green earth pigments dispersions: Water dynamics at the interfaces. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 644-655.	9.4	5
106	A 19th Century "Ideal" Oil Paint Medium: A Complex Hybrid Organic-Inorganic Gel. <i>Angewandte Chemie</i> , 2017, 129, 1641-1645.	2.0	4
107	Complementarity of Density Functional Theory and Nuclear Magnetic Resonance Tools To Probe the Nano-Layered Silicates Surface Chemistry and Morphology. <i>Journal of Physical Chemistry C</i> , 2020, 124, 267-286.	3.1	4
108	Green Earth pigments aqueous dispersions: NMR relaxation rates dataset. <i>Data in Brief</i> , 2020, 32, 106270.	1.0	3

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109	Shedding Light on Functional Hybrid Nanocomposites 19th Century Paint Medium. <i>Advanced Functional Materials</i> , 2022, 32, 2106346.	14.9	3
110	Aminopropyl bentonites obtained by microwave-assisted silylation for copper removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127557.	4.7	3
111	Connecting Rheological Properties and Molecular Dynamics of Eggâ€™Tempera Paints based on Egg Yolk. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	3
112	Functionalization of the hydroxyapatite surface with ZnO for alizarin immobilization. <i>Applied Surface Science</i> , 2022, , 153412.	6.1	3
113	Designing photochromatic pigments based on clay minerals and spiropyran. <i>Dyes and Pigments</i> , 2022, 204, 110358.	3.7	3
114	Synthesis and Characterisation of Organo Phyllosilicates Containing Both Si, Al, and Mg. <i>Materials Research Society Symposia Proceedings</i> , 2002, 726, 1.	0.1	2
115	ZnO/bentonite Hybrids Obtained by a Simple Method of Synthesis and Applied as Catalyst for Biodiesel Production. <i>Engineering Materials</i> , 2021, , 1-25.	0.6	2
116	Alâ€™Mn-silicate nanobubbles phase as an intermediate in zeolite formation. <i>Applied Clay Science</i> , 2016, 123, 202-209.	5.2	1
117	Vanadium Oxide Nanotubes: New Synthesis Route and Mechanism of Formation.. <i>Materials Research Society Symposia Proceedings</i> , 2004, 847, 460.	0.1	0
118	Connecting Rheological Properties and Molecular Dynamics of Eggâ€™Tempera Paints based on Egg Yolk. <i>Angewandte Chemie</i> , 0, , .	2.0	0
119	Deadlocks of adenine ribonucleotides synthesis: Evaluation of adsorption and condensation reactions into a zeolite micropore space. <i>Inorganic Chemistry Frontiers</i> , 0, , .	6.0	0