T Jean Daou

List of Publications by Year in Descending Order

123 papers	3,429 citations	24 h-index	55 g-index
131 ext. papers	3,834 ext. citations	4.7 avg, IF	5.19 L-index

#	Paper	IF	Citations
123	Highly efficient non-microwave instant heating synthesis of hexyl levulinate fuel additive enhanced by sulfated nanosilica catalyst. *Microporous and Mesoporous Materials*, **2022**, 331, 111645	5.3	1
122	SAPO-34 crystallized using novel pyridinium template as highly active catalyst for synthesis of ethyl levulinate biofuel. *Microporous and Mesoporous Materials*, **2022**, 333, 111754	5.3	1
121	SAPO-35 zeolite crystallized using novel structure-directing agent for catalytic conversion of levulinic acid into ethyl levulinate under non-microwave instant heating. *Materials Chemistry and Physics*, **2022**, 126240	4.4	1
120	Experimental and numerical investigation of specific behaviour of fluoride ions during filtration of pure salt water solutions with titania membrane. *Desalination*, **2022**, 537, 115870	10.3	
119	Rational Design and Characterisation of Novel Mono- and Bimetallic Antibacterial Linde Type A Zeolite Materials. *Journal of Functional Biomaterials*, **2022**, 13, 73	4.8	0
118	All-Silica SSZ-74 Synthesized in Fluoride or Fluoride-Free Media: Investigation on Organic Structure-Directing Agents Locations Inside Pores. *Crystal Growth and Design*, **2021**, 21, 4013-4022	3.5	2
117	Synthesis of BEC-type germanosilicates with asymmetric diquaternary ammonium salts. *Microporous and Mesoporous Materials*, **2021**, 312, 110804	5.3	1
116	Facile and fast determination of Si/Al ratio of zeolites using FTIR spectroscopy technique. *Microporous and Mesoporous Materials*, **2021**, 311, 110683	5.3	15
115	High Quality Bio-Oil Obtained from Catalyzed Pyrolysis of Olive Mill Solid Wastes in a Bi-Functional Reactor. *Materials Sciences and Applications*, **2021**, 12, 52-77	0.3	1
114	Synthesis of Hierarchical MOR-Type Zeolites with Improved Catalytic Properties. *Molecules*, **2021**, 26,	4.8	1
113	Hierarchical Zeolites as Catalysts for Biodiesel Production from Waste Frying Oils to Overcome Mass Transfer Limitations. *Molecules*, **2021**, 26,	4.8	2
112	A Novel Numerical Procedure to Estimate the Electric Charge in the Pore from Filtration of Single-Salt Solutions. *Membranes*, **2021**, 11,	3.8	1
111	Offretite zeolite templated by amphiphile and its catalytic performance in microwave-assisted Knoevenagel condensation of benzaldehyde and ethyl cyanoacetate. *Materials Chemistry and Physics*, **2021**, 272, 125001	4.4	2
110	Effect of zeolite morphology on charge separated states: ZSM-5-type nanocrystals, nanosheets and nanosponges. *Physical Chemistry Chemical Physics*, **2020**, 22, 12015-12027	3.6	1
109	Energetic Performance of Pure Silica Zeolites under High-Pressure Intrusion of LiCl Aqueous Solutions: An Overview. *Molecules*, **2020**, 25,	4.8	2
108	Controlled Crystallization of Hierarchical Monoliths Composed of Nanozeolites. *Crystal Growth and Design*, **2020**, 20, 5413-5423	3.5	4
107	Synthesis of Hierarchical Zeolites with Morphology Control: Plain and Hollow Spherical Beads of Silicalite-1 Nanosheets. *Molecules*, **2020**, 25,	4.8	2

106	Influence of the Compensating Cation Nature on the Water Adsorption Properties of Zeolites. *Molecules*, **2020**, 25,	4.8	18
105	Crystal growth study of nanosized K-MER zeolite from bamboo leaves ash and its catalytic behaviour in Knoevenagel condensation of benzaldehyde with ethyl cyanoacetate. *Materials Chemistry and Physics*, **2020**, 251, 123100	4.4	4
104	Hierarchical CsP pollucite Nanozeolite Modified with Novel Organosilane as an Excellent Solid Base Catalyst for ClaisenS chmidt Condensation of Benzaldehyde and Acetophenone. *Processes*, **2020**, 8, 96	2.9	3
103	Structural interpretation of the energetic performances of a pure silica LTA-type zeolite. *Physical Chemistry Chemical Physics*, **2020**, 22, 5178-5187	3.6	4
102	Unusual high-pressure intrusion-extrusion behavior of electrolyte solutions in Mu-26, a pure silica zeolite of topology STF. *Microporous and Mesoporous Materials*, **2020**, 298, 110047	5.3	3
101	Morphological effects on catalytic performance of LTL zeolites in acylation of 2-methylfuran enhanced by non-microwave instant heating. *Materials Chemistry and Physics*, **2020**, 244, 122688	4.4	9
100	Esterification of linoleic acid using HZSM-5 zeolites with different Si/Al ratios. *Microporous and Mesoporous Materials*, **2020**, 294, 109855	5.3	9
99	Organic/Inorganic Heterogeneous Silica-Based Photoredox Catalyst for Aza-Henry Reactions. *European Journal of Organic Chemistry*, **2020**, 2020, 1572-1578	3.2	8
98	The effect of nanostructures on high pressure intrusionE xtrusion of water and electrolyte solutions in hierarchical nanoboxes of silicalite-1. *New Journal of Chemistry*, **2020**, 44, 273-281	3.6	1
97	Recyclable synthesis of Cs-ABW zeolite nanocrystals from non-reacted mother liquors with excellent catalytic henry reaction performance. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103579	6.8	6
96	Guided Crystallization of Zeolite Beads Composed of ZSM-12 Nanosponges. *Crystals*, **2020**, 10, 828	2.3	
95	Deposition of NiO Nanoparticles on Nanosized Zeolite NaY for Production of Biofuel via Hydrogen-Free Deoxygenation. *Materials*, **2020**, 13,	3.5	7
94	Green hybrid zeolite coatings for on-orbit molecular decontamination. *Microporous and Mesoporous Materials*, **2020**, 307, 110478	5.3	0
93	Synthesis of FAU-Type Zeolite Membranes with Antimicrobial Activity. *Molecules*, **2020**, 25,	4.8	5
92	Hierarchical ZSM-5 beads composed of zeolite nanosheets obtained by pseudomorphic transformation. *Microporous and Mesoporous Materials*, **2019**, 288, 109565	5.3	7
91	Preparation of Single-Crystal H ouse-of-Cards-like ZSM-5 and Their Performance in Ethanol-to-Hydrocarbon Conversion. *Chemistry of Materials*, **2019**, 31, 4639-4648	9.6	28
90	Differential penetration of ethanol and water in Si-chabazite: High pressure dehydration of azeotrope solution. *Microporous and Mesoporous Materials*, **2019**, 284, 161-169	5.3	9
89	Surfactant-modified MFI-type nanozeolites: Super-adsorbents for nitrate removal from contaminated water. *Microporous and Mesoporous Materials*, **2019**, 283, 1-13	5.3	16

88	Ultrasmall Cs-AlMCM-41 basic catalysts: Effects of aluminum addition on their physico-chemical and catalytic properties. *Microporous and Mesoporous Materials*, **2019**, 288, 109599	5.3	3
87	Reminiscent capillarity in subnanopores. *Nature Communications*, **2019**, 10, 4642	17.4	13
86	High pressure intrusion of water and LiCl aqueous solutions in hydrophobic KIT-6 mesoporous silica: Influence of the grafted group nature. *Microporous and Mesoporous Materials*, **2019**, 280, 248-255	5.3	10
85	Micro- and macroscopic observations of the nucleation process and crystal growth of nanosized Cs-pollucite in an organotemplate-free hydrosol. *New Journal of Chemistry*, **2019**, 43, 17433-17440	3.6	8
84	Study on the catalytic performance of different crystal morphologies of HZSM-5 zeolites for the production of biodiesel: a strategy to increase catalyst effectiveness. *Catalysis Science and Technology*, **2019**, 9, 5456-5471	5.5	14
83	Performance of surfactant-modified *BEA-type zeolite nanosponges for the removal of nitrate in contaminated water: Effect of the external surface. *Journal of Hazardous Materials*, **2019**, 364, 206-217	12.8	27
82	Synthesis of Cs-ABW nanozeolite in organotemplate-free system. *Microporous and Mesoporous Materials*, **2019**, 277, 78-83	5.3	18
81	A drastic influence of the anion nature and concentration on high pressure intrusion-extrusion of electrolyte solutions in Silicalite-1. *Physical Chemistry Chemical Physics*, **2018**, 20, 6462-6468	3.6	6
80	Synthesis of hierarchical ZSM-48 nano-zeolites. *New Journal of Chemistry*, **2018**, 42, 4457-4464	3.6	8
79	Energetic Performances of Pure-Silica DDR Zeolite by High-Pressure Intrusion–Extrusion of Electrolyte Aqueous Solutions: A Shock-Absorber with Huge Absorbed Energy. *Journal of Physical Chemistry C*, **2018**, 122, 2726-2733	3.8	8
78	Extra large pore opening CFI and DON-type zeosils for mechanical energy storage. *Microporous and Mesoporous Materials*, **2018**, 255, 211-219	5.3	7
77	Periodic mesoporous organosilicas as porous matrix for heterogeneous lyophobic systems. *Microporous and Mesoporous Materials*, **2018**, 260, 166-171	5.3	12
76	Catalytic properties of Ga-containing MFI-type zeolite in cyclohexane dehydrogenation and propane aromatization. *Journal of Catalysis*, **2018**, 365, 376-390	7.3	24
75	Exploring the impact of zeolite porous voids in liquid phase reactions: The case of glycerol etherification by tert-butyl alcohol. *Journal of Catalysis*, **2018**, 365, 249-260	7.3	24
74	Porous sorbents for the capture of radioactive iodine compounds: a review.. *RSC Advances*, **2018**, 8, 29248-29273	3.7	124
73	Intrusion–Extrusion of Electrolyte Aqueous Solutions in Pure Silica Chabazite by in Situ High Pressure Synchrotron X-ray Powder Diffraction. *Journal of Physical Chemistry C*, **2018**, 122, 28001-28012	3.8	8
72	Synthesis of Binderless ZK-4 Zeolite Microspheres at High Temperature. *Molecules*, **2018**, 23,	4.8	7
71	Adsorption of Polychlorinated Aromatics in EMT-Type Zeolites: A Combined Experimental-Simulation Approach. *Journal of Physical Chemistry C*, **2018**, 122, 12731-12741	3.8	4

70	New Approach to the Acidity Characterization of Pristine Zeolite Crystals by Ethylene Using Reversed-Flow Inverse Gas Chromatography (RF-IGC). *Journal of Physical Chemistry C*, **2017**, 121, 2738-2747	3.8	2
69	Influence of LiCl aqueous solution concentration on the energetic performances of pure silica chabazite. *New Journal of Chemistry*, **2017**, 41, 2586-2592	3.6	9
68	Investigation of the energetic performance of pure silica BEC-type zeolite under high pressure water and 20 M LiCl intrusion-extrusion experiments. *Microporous and Mesoporous Materials*, **2017**, 254, 153-159	5.3	7
67	Adsorption of volatile organic compounds in composite zeolites pellets for space decontamination. *Adsorption*, **2017**, 23, 395-403	2.6	9
66	SDA-Free Hydrothermal Synthesis of High-Silica Ultra-nanosized Zeolite Y. *Crystal Growth and Design*, **2017**, 17, 1173-1179	3.5	22
65	Effects of the zeolite particle size on the charge separated states. *Microporous and Mesoporous Materials*, **2017**, 254, 121-127	5.3	5
64	Energetic performances of FER-type zeolite in the presence of electrolyte solutions under high pressure. *Energy*, **2017**, 130, 29-37	7.9	3
63	Dioxin and 1,2-dichlorobenzene adsorption in aluminosilicate zeolite Beta. *Adsorption*, **2017**, 23, 101-112	2.6	6
62	Adsorption of 1,2-dichlorobenzene and 1,2,4-trichlorobenzene in nano- and microsized crystals of MIL-101(Cr): static and dynamic gravimetric studies. *Environmental Science and Pollution Research*, **2017**, 24, 26562-26573	5.1	7
61	Formation domain of SDA-free Y faujasite small crystals. *New Journal of Chemistry*, **2017**, 41, 13260-13267	3.6	3
60	Impact of Crystal Size on the Acidity and the Involved Interactions Studied by Conventional and Innovative Techniques. *Journal of Physical Chemistry C*, **2017**, 121, 18725-18737	3.8	2
59	Heterogeneous lyophobic systems based on pure silica ITH-type zeolites: high pressure intrusion of water and electrolyte solutions. *New Journal of Chemistry*, **2017**, 41, 15087-15093	3.6	3
58	Adsorption of uremic toxins over dealuminated zeolites. *Adsorption Science and Technology*, **2017**, 35, 3-19	3.6	12
57	Hierarchical Faujasite-Type Zeolite for Molecular Decontamination. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 9318-9322	1.3	8
56	Intrusion-extrusion spring performance of -COK-14 zeolite enhanced by structural changes. *Physical Chemistry Chemical Physics*, **2016**, 18, 18795-801	3.6	8
55	Influence of downsizing of zeolite crystals on the orthorhombic <-> monoclinic phase transition in pure silica MFI-type. *Solid State Sciences*, **2016**, 58, 111-114	3.4	5
54	Particular properties of the coke formed on nano-sponge *BEA zeolite during ethanol-to-hydrocarbons transformation. *Journal of Catalysis*, **2016**, 336, 1-10	7.3	48
53	New Generation of Zeolite Materials for Environmental Applications.. *Journal of Physical Chemistry C*, **2016**, 120, 2688-2697	3.8	28

52	Synthesis of EMT/FAU-type zeolite nanocrystal aggregates in high yield and crystalline form. *Comptes Rendus Chimie*, **2016**, 19, 475-485	2.7	6
51	Impact of extreme downsizing of *BEA-type zeolite crystals on n-hexadecane hydroisomerization. *New Journal of Chemistry*, **2016**, 40, 4335-4343	3.6	24
50	Synthesis of mono- and bi-layer zeolite films on alumina substrates. *Comptes Rendus Chimie*, **2016**, 19, 486-495	2.7	4
49	Elaboration of FAU-type zeolite beads with good mechanical performances for molecular decontamination. *RSC Advances*, **2016**, 6, 2470-2478	3.7	17
48	High pressure intrusion–extrusion of electrolyte solutions in aluminosilicate FAU and *BEA-type zeolites. *Microporous and Mesoporous Materials*, **2016**, 221, 1-7	5.3	12
47	Prediction of the mechanical properties of zeolite pellets for aerospace molecular decontamination applications. *Beilstein Journal of Nanotechnology*, **2016**, 7, 1761-1771	3	1
46	Eco-compatible zeolite-catalysed continuous halogenation of aromatics. *Green Chemistry*, **2016**, 18, 4714–4724	9.6	21
45	A new generation of MFI-type zeolite pellets with very high mechanical performance for space decontamination. *Microporous and Mesoporous Materials*, **2016**, 221, 167-174	5.3	15
44	Intrusion-extrusion experiments of MgCl2 aqueous solution in pure silica ferrierite: Evidence of the nature of intruded liquid by in situ high pressure synchrotron X-ray powder diffraction. *Microporous and Mesoporous Materials*, **2016**, 235, 253-260	5.3	20
43	Synthesis of mono- and bi-layer MFI zeolite films on macroporous alumina tubular supports: Application to nanofiltration. *Journal of Crystal Growth*, **2015**, 428, 71-79	1.6	9
42	Influence of the Particle Sizes on the Energetic Performances of MFI-Type Zeolites. *Journal of Physical Chemistry C*, **2015**, 119, 18074-18083	3.8	19
41	Surface energy modification of a Na-mordenite thin layer treated by an alkaline solution. *Materials Express*, **2015**, 5, 451-456	1.3	7
40	Hydraulic Performance Modifications of a Zeolite Membrane after an Alkaline Treatment: Contribution of Polar and Apolar Surface Tension Components. *Advances in Materials Science and Engineering*, **2015**, 2015, 1-7	1.5	4
39	High-Pressure Intrusion–Extrusion of Water and Electrolyte Solutions in Pure-Silica LTA Zeolite. *Journal of Physical Chemistry C*, **2015**, 119, 28319-28325	3.8	23
38	One shot synthesis of EMT-type zeolite nanocrystals aggregates for potential industrial applications. *Microporous and Mesoporous Materials*, **2015**, 210, 194-198	5.3	6
37	The influence of the nature of organosilane surfactants and their concentration on the formation of hierarchical FAU-type zeolite nanosheets. *New Journal of Chemistry*, **2015**, 39, 2675-2681	3.6	24
36	High Pressure Intrusion–Extrusion of LiCl Aqueous Solutions in Silicalite-1 Zeolite: Influence on Energetic Performances. *Journal of Physical Chemistry C*, **2014**, 118, 3935-3941	3.8	33
35	Influence of the aqueous medium on the energetic performances of Silicalite-1. *Materials Letters*, **2014**, 115, 229-232	3.3	39

34	Drastic change of the intrusion-extrusion behavior of electrolyte solutions in pure silica *BEA-type zeolite. *Physical Chemistry Chemical Physics*, **2014**, 16, 17893-9	3.6	28
33	Synthesis of purely silica MFI-type nanosheets for molecular decontamination. *RSC Advances*, **2014**, 4, 37353	3.7	33
32	A Comparative Study of Some Properties of Cassava and Tree Cassava Starch Films. *Physics Procedia* , **2014**, 55, 220-226		18
31	MFI-type zeolite nanosheets for gas-phase aromatics chlorination: a strategy to overcome mass transfer limitations. *RSC Advances*, **2014**, 4, 27242-27249	3.7	12
30	Energetic performances of pure silica STF and MTT-type zeolites under high pressure water intrusion. *RSC Advances*, **2014**, 4, 37655-37661	3.7	21
29	Synthesis of a New Diaazacrown Ether Compound Interconnected with an Azacrown Ether and Decorated with a Long Lipophilic Chain. *Synthetic Communications*, **2014**, 44, 1888-1892	1.7	
28	The influence of l-lysine and PDADMA on the crystal size and porosity of zeolite Y material. *Microporous and Mesoporous Materials*, **2013**, 170, 346-351	5.3	9
27	One-pot structural conversion of magadiite into MFI zeolite nanosheets using mononitrogen surfactants as structure and shape-directing agents. *CrystEngComm*, **2013**, 15, 3009	3.3	33
26	Synthesis of MFI/EMT zeolite bi-layer films for molecular decontamination. *Chemical Engineering Journal*, **2013**, 234, 66-73	14.7	19
25	Synthesis of FAU and EMT-type zeolites using structure-directing agents specifically designed by molecular modelling. *Microporous and Mesoporous Materials*, **2013**, 174, 117-125	5.3	31
24	Energetic behavior of the pure silica ITQ-12 (ITW) zeolite under high pressure water intrusion. *Physical Chemistry Chemical Physics*, **2013**, 15, 20320-5	3.6	24
23	Tensile and water barrier properties of cassava starch composite films reinforced by synthetic zeolite and beidellite. *Journal of Food Engineering*, **2013**, 115, 339-346	6	22
22	Gas-phase chlorination of aromatics over FAU- and EMT-type zeolites. *Catalysis Communications*, **2013**, 39, 10-13	3.2	10
21	Zeolite hybrid films for space decontamination. *Microporous and Mesoporous Materials*, **2013**, 172, 36-43	5.3	21
20	Adsorption of volatile organic compounds in pure silica CHA, *BEA, MFI and STT-type zeolites. *Microporous and Mesoporous Materials*, **2013**, 173, 147-154	5.3	57
19	MFI/*BEA hybrid coating on aluminum alloys. *Microporous and Mesoporous Materials*, **2013**, 166, 79-85	5.3	16
18	Key steps influencing the formation of ZSM-5 films on aluminum substrates. *Microporous and Mesoporous Materials*, **2012**, 152, 1-8	5.3	32
17	Adsorption kinetics and equilibrium of phenol drifts on three zeolites. *Open Engineering*, **2012**, 2,	1.7	6

16	Evaluation and Treatment of Carbonyl Compounds and Fine Particles Emitted by Combustion of Biodiesels in a Generator. *Energy & Fuels*, **2012**, 26, 6160-6167	4.1	11
15	Study of Non-Regulated Exhaust Emissions Using Biodiesels and Impact on a 4 Way Catalyst Efficiency **2011**,		4
14	In vitro and in vivo intracellular delivery of quantum dots by maurocalcine. *International Journal of Biomedical Nanoscience and Nanotechnology*, **2011**, 2, 12	0.2	6
13	Surfactant-modified MFI nanosheets: a high capacity anion-exchanger. *Chemical Communications*, **2011**, 47, 902-4	5.8	33
12	Spin Canting of Maghemite Studied by NMR and In-Field Mössbauer Spectrometry. *Journal of Physical Chemistry C*, **2010**, 114, 8794-8799	3.8	39
11	Effect of chain length and electrical charge on properties of ammonium-bearing bisphosphonate-coated superparamagnetic iron oxide nanoparticles: formulation and physicochemical studies. *Journal of Nanoparticle Research*, **2010**, 12, 1239-1248	2.3	22
10	Formation of ferrimagnetic films with functionalized magnetite nanoparticles using the Langmuir-Blodgett technique. *Journal of Physical Chemistry B*, **2009**, 113, 734-8	3.4	21
9	Effect of poly(ethylene glycol) length on the in vivo behavior of coated quantum dots. *Langmuir*, **2009**, 25, 3040-4	4	127
8	Water soluble dendronized iron oxide nanoparticles. *Dalton Transactions*, **2009**, 4442-9	4.3	80
7	Thermal, Magnetic, and Luminescent Properties of Dendronized Ferrite Nanoparticles. *Journal of Physical Chemistry C*, **2009**, 113, 12201-12212	3.8	27
6	Highly Luminescent CuInS2/ZnS Core/Shell Nanocrystals: Cadmium-Free Quantum Dots for In Vivo Imaging. *Chemistry of Materials*, **2009**, 21, 2422-2429	9.6	589
5	Coupling Agent Effect on Magnetic Properties of Functionalized Magnetite-Based Nanoparticles. *Chemistry of Materials*, **2008**, 20, 5869-5875	9.6	266
4	Investigation of the grafting rate of organic molecules on the surface of magnetite nanoparticles as a function of the coupling agent. *Sensors and Actuators B: Chemical*, **2007**, 126, 159-162	8.5	29
3	Design of Functionalized Fe3O4 Nanoparticles for Elaboration of Nanostructured Films with Magnetic Properties. *Materials Research Society Symposia Proceedings*, **2007**, 1007, 1		
2	Phosphate Adsorption Properties of Magnetite-Based Nanoparticles. *Chemistry of Materials*, **2007**, 19, 4494-4505	9.6	317
1	Hydrothermal Synthesis of Monodisperse Magnetite Nanoparticles. *Chemistry of Materials*, **2006**, 18, 4399-4404	9.6	496