

# Mohamed Sassi

## List of Publications by Year in descending order

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48  
papers

833  
citations

430874

18  
h-index

501196

28  
g-index

49  
all docs

49  
docs citations

49  
times ranked

940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intercalation of halloysite from Djebel Debagh (Algeria) and adsorption of copper ions. <i>Applied Clay Science</i> , 2009, 44, 230-236.	5.2	105
2	Quantitative and qualitative study of density driven CO <sub>2</sub> mass transfer in a vertical Hele-Shaw cell. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 901-914.	4.8	53
3	Sulfur Recovery from Acid Gas Using the Claus Process and High Temperature Air Combustion (HiTAC) Technology. <i>American Journal of Environmental Sciences</i> , 2008, 4, 502-511.	0.5	44
4	Micro-CT and FIB-SEM imaging and pore structure characterization of dolomite rock at multiple scales. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	42
5	Experimental and Numerical Studies of Density Driven Natural Convection in Saturated Porous Media with Application to CO <sub>2</sub> geological storage. <i>Energy Procedia</i> , 2013, 37, 5323-5330.	1.8	34
6	Characterization of the crossover from capillary invasion to viscous fingering to fracturing during drainage in a vertical 2D porous medium. <i>International Journal of Multiphase Flow</i> , 2014, 58, 279-291.	3.4	34
7	Modelling of heat and mass transfer in a tunnel dryer. <i>Applied Thermal Engineering</i> , 2006, 26, 2110-2118.	6.0	33
8	Adsorption of carbon dioxide at high pressure over H-ZSM-5 type zeolite. Micropore volume determinations by using the Dubinin-Raduskevich equation and the $\alpha$ - $\beta$ -plot method. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 370-377.	4.4	33
9	Chemical reactor network modeling of a microwave plasma thermal decomposition of H <sub>2</sub> S into hydrogen and sulfur. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10010-10019.	7.1	32
10	Structural characterization and numerical simulations of flow properties of standard and reservoir carbonate rocks using micro-tomography. <i>Computers and Geosciences</i> , 2018, 113, 14-22.	4.2	29
11	CuNPs-magadiite/chitosan nanocomposite beads as advanced antibacterial agent: Synthetic path and characterization. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 2149-2155.	7.5	29
12	Na-magadiite prepared in a water/alcohol medium: synthesis, characterization and use as a host material to prepare alkyltrimethylammonium- and Si-pillared derivatives. <i>Clay Minerals</i> , 2005, 40, 369-378.	0.6	23
13	Direct scale comparison of numerical linear elastic moduli with acoustic experiments for carbonate rock X-ray CT scanned at multi-resolutions. <i>Journal of Petroleum Science and Engineering</i> , 2017, 152, 653-663.	4.2	22
14	Evaluation of intercalated layered materials as an antimicrobial and drug delivery system: a comparative study. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020, 96, 353-364.	1.6	22
15	Structure and intercalation behavior of copper II on the layered sodium silicate magadiite material. <i>Chemical Papers</i> , 2018, 72, 39-50.	2.2	21
16	Experimental investigation of gas heating and dissociation in a microwave plasma torch at atmospheric pressure. <i>Energy Conversion and Management</i> , 2014, 78, 695-703.	9.2	20
17	Numerical sensitivity analysis of density driven CO <sub>2</sub> convection with respect to different modeling and boundary conditions. <i>Heat and Mass Transfer</i> , 2015, 51, 941-952.	2.1	19
18	Two-Dimensional Computational Modeling and Simulation of Wood Particles Pyrolysis in a Fixed Bed Reactor. <i>Combustion Science and Technology</i> , 2008, 180, 833-853.	2.3	18

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19	Lead(II) removal from aqueous solutions by organic thiourea derivatives intercalated magadiite. <i>Desalination and Water Treatment</i> , 2016, 57, 9383-9395.	1.0	18
20	Optimal design and measurement of the effective thermal conductivity of a powder using a crenel heating excitation. <i>International Journal of Thermal Sciences</i> , 2005, 44, 1090-1097.	4.9	17
21	Multi-scale experimental and numerical simulation workflow of absolute permeability in heterogeneous carbonates. <i>Journal of Petroleum Science and Engineering</i> , 2019, 173, 326-338.	4.2	17
22	Preparation of Al-magadiite material, copper ions exchange and effect of counter-ions: antibacterial and antifungal applications. <i>Research on Chemical Intermediates</i> , 2019, 45, 633-644.	2.7	16
23	Experimental validation of local thermal equilibrium in a MW plasma torch for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15210-15218.	7.1	15
24	Preparation and characterization of layered silicate magadiite intercalated by Cu <sup>2+</sup> and Zn <sup>2+</sup> for antibacterial behavior. <i>Journal of Porous Materials</i> , 2017, 24, 1627-1636.	2.6	14
25	Intercalation of hydrophilic antibiotic into the interlayer space of the layered silicate magadiite. <i>Journal of Molecular Structure</i> , 2018, 1171, 190-195.	3.6	14
26	Simulation numérique des jets turbulents subsoniques à masse volumique variable par le modèle k-ε. <i>International Journal of Thermal Sciences</i> , 2002, 41, 51-62.	4.9	12
27	Alginate@Layered Silicate Composite Beads: Dye Elimination, Box-Behnken Design Optimization and Antibacterial Property. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 2615-2633.	3.7	12
28	Experimental and Numerical Studies of CO <sub>2</sub> Injection Into Water-Saturated Porous Medium: Capillary to Viscous to Fracture Fingering Phenomenon. <i>Energy Procedia</i> , 2013, 37, 5511-5519.	1.8	11
29	Biopolymer-layered polysilicate micro/nanocomposite based on chitosan intercalated in magadiite. <i>Research on Chemical Intermediates</i> , 2018, 44, 6469-6478.	2.7	10
30	Synthesis and characterization of a new one-dimensional sodium silicate named Mu-29. <i>Microporous and Mesoporous Materials</i> , 2003, 64, 51-61.	4.4	9
31	Modeling of hydrodynamics of fine particles deposition in packed-bed reactors. <i>Journal of Computational Multiphase Flows</i> , 2017, 9, 157-168.	0.8	8
32	Experimental Visualization and Investigation of Multiphase Flow Regime Transitions in Two-Dimensional Trickle Bed Reactors. <i>Chemical Engineering Communications</i> , 2017, 204, 388-397.	2.6	7
33	Structural and Antibacterial Properties of HyZn <sub>x</sub> Na <sub>2-~x</sub> Si <sub>14</sub> O <sub>29</sub> nH <sub>2</sub> O Layered Silicate Compounds, Prepared by Ion-Exchange Reaction. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 1029-1038.	3.7	7
34	Preparation of montmorillonite clays containing DTMPPA for Zinc extraction. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1032-1036.	4.0	6
35	Scalar transport modelling in turbulent round jets with co-flowing stream. <i>International Journal of Thermal Sciences</i> , 2005, 44, 766-773.	4.9	4
36	Modeling and control for a 6-DOF platform manipulator. , 2013, , .		4

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37	Numerical Modelling and Simulation of Gas-Liquid Trickle Flow in Trickle Bed Reactor Using an Improved Phenomenological Model. Energy Procedia, 2017, 105, 4140-4145.	1.8	4
38	Quantification of Plasticity and Damage in Berea Sandstone through Monotonic and Cyclic Triaxial Loading under High-Confinement Pressures. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	4
39	Temperatures in a turbulent diffusion flame with and without exposure to an electric arc. Journal of Quantitative Spectroscopy and Radiative Transfer, 1993, 49, 281-301.	2.3	3
40	Evaluation of reduced chemical kinetic mechanisms used for modeling mild combustion for natural gas. Thermal Science, 2009, 13, 131-137.	1.1	2
41	Radiative transfer effects of an axisymmetric particulate jet into a cylindrical pipe. Heat and Mass Transfer, 2007, 43, 613-622.	2.1	1
42	Comparison and Parametric Study of Flameless Oxidation in a Gas Turbine Using Two Kinetics Mechanisms. American Journal of Environmental Sciences, 2008, 4, 535-543.	0.5	1
43	Numerical Analysis of Fluid Flow and Heat Transfer within Grooved Flat Mini Heat Pipes. Lecture Notes in Mechanical Engineering, 2013, , 381-394.	0.4	1
44	Cu (II) Extraction from Sulfate Media by Functionalized Algerian Bentonites. Oriental Journal of Chemistry, 2013, 29, 991-1000.	0.3	1
45	Numerical Simulation of Gas Injection in Vertical Water Saturated Porous Media. Environmental Modeling and Assessment, 2018, 23, 459-469.	2.2	1
46	NUMERICAL INVESTIGATION OF PILOTED TURBULENT REACTING METHANE/AIR JET. Computational Thermal Sciences, 2018, 10, 199-210.	0.9	1
47	Numerical Investigation of Multiphase Flow Hydrodynamics in Trickle Bed Reactors. , 2014, , .		0
48	Crystal structure of a new homochiral one-dimensional zincophosphate containing L-methionine. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 832-835.	0.5	0