Matias Rafti

List of Publications by Year in Descending Order

42 papers	440 citations	13 h-index	19 g-index
44 ext. papers	571 ext. citations	4 avg, IF	4.08 L-index

#	Paper	IF	Citations
42	Post-synthetic modification and chemical modulation of the ZIF-8 MOF using 3-mercaptopropionic acid (MPA): a multi-technique study on thermodynamic and kinetic aspects. *Molecular Systems Design and Engineering*, **2022**, 7, 101-111	4.6	2
41	Comparison of Arsenate Adsorption from Neutral pH Aqueous Solutions Using Two Different Iron-Trimesate Porous Solids: Kinetics, Equilibrium Isotherms, and Synchrotron X-Ray Absorption Experiments. *Journal of Inorganic and Organometallic Polymers and Materials*, **2021**, 31, 1185-1194	3.2	2
40	Review of biosensing with whispering-gallery mode lasers. *Light: Science and Applications*, **2021**, 10, 42	16.7	56
39	MCM-41-based composite with enhanced stability for Cr(VI) removal from aqueous media. *Solid State Sciences*, **2020**, 106, 106300	3.4	3
38	Synthesis and characterization of thermoresponsive ZIF-8@PNIPAm--MAA microgel composites with enhanced performance as an adsorption/release platform.. *RSC Advances*, **2020**, 10, 2453-2461	3.7	10
37	MOF@PEDOT Composite Films for Impedimetric Pesticide Sensors. *Global Challenges*, **2020**, 4, 1900076	4.3	12
36	Growth of ZIF-8 MOF Films with Tunable Porosity by using Poly (1-vinylimidazole) Brushes as 3D Primers. *Chemistry - A European Journal*, **2020**, 26, 12388-12396	4.8	6
35	Shelter for Biologically Relevant Molecules: Photoprotection and Enhanced Thermal Stability of Folic Acid Loaded in a ZIF-8 MOF Porous Host. *Industrial & Engineering Chemistry Research*, **2020**, 59, 22155-22162	3.9	0
34	Self-Assembled Mesoporous Zeolitic Imidazolate Framework-8 (ZIF-8) Nanocrystals Bearing Thiol Groups for Separations Technologies. *ACS Applied Nano Materials*, **2020**, 3, 11266-11273	5.6	2
33	Layer-by-layer integration of conducting polymers and metal organic frameworks onto electrode surfaces: enhancement of the oxygen reduction reaction through electrocatalytic nanoarchitectonics. *Molecular Systems Design and Engineering*, **2019**, 4, 893-900	4.6	24
32	Modulation of Hydrophilic/Hydrophobic Character of Porous Environments in Metal□Organic Frameworks via Direct Polymer Capping Probed by NMR Diffusion Measurements. *Journal of Physical Chemistry C*, **2019**, 123, 21076-21082	3.8	11
31	Photosensitizing properties of hollow microcapsules built by multilayer self-assembly of poly(allylamine hydrochloride) modified with rose Bengal.. *RSC Advances*, **2019**, 9, 19226-19235	3.7	2
30	Shedding Light on the Dark Corners of Metal-Organic Framework Thin Films: Growth and Structural Stability of ZIF-8 Layers Probed by Optical Waveguide Spectroscopy. *Journal of Physical Chemistry A* , **2019**, 123, 1100-1109	2.8	15
29	Lectin-Recognizable MOF Glyconanoparticles: Supramolecular Glycosylation of ZIF-8 Nanocrystals by Sugar-Based Surfactants. *ACS Omega*, **2019**, 4, 842-848	3.9	6
28	Cysteamine-modified ZIF-8 colloidal building blocks: Direct assembly of nanoparticulate MOF films on gold surfaces via thiol chemistry. *Materials Today Chemistry*, **2018**, 8, 29-35	6.2	14
27	Photophysical and Photochemical Properties of Naturally Occurring normelinonine F and Melinonine F Alkaloids and Structurally Related N(2)- and/or N(9)-methyl-□-carboline Derivatives. *Photochemistry and Photobiology*, **2018**, 94, 36-51	3.6	15
26	Polyelectrolyte Capping As Straightforward Approach toward Manipulation of Diffusive Transport in MOF Films. *Langmuir*, **2018**, 34, 425-431	4	5

25	Powering Up the Oxygen Reduction Reaction through the Integration of O2-Adsorbing Metal□Organic Frameworks on Nanocomposite Electrodes. *ACS Applied Energy Materials*, **2018**,	6.1	5
24	Metal□organic frameworks meet polymer brushes: enhanced crystalline film growth induced by macromolecular primers. *Materials Chemistry Frontiers*, **2017**, 1, 2256-2260	7.8	16
23	Molecular transport properties of ZIF-8 thin films in aqueous environments: The critical role of intergrain mesoporosity as diffusional pathway. *Microporous and Mesoporous Materials*, **2016**, 220, 253-257	5.3	13
22	Metal-Organic Frameworks Help Conducting Polymers Optimize the Efficiency of the Oxygen Reduction Reaction in Neutral Solutions. *Advanced Materials Interfaces*, **2016**, 3, 1600047	4.6	26
21	DESCRIPTION OF CHEMICALLY AND THERMALLY TREATED MULTI-WALLED CARBON NANOTUBES USING SEQUENTIAL DECOMPOSITION OF ADSORPTION ISOTHERMS. *Surface Review and Letters*, **2016**, 23, 1650025	1.1	
20	Low-pressure equilibrium binary argon□ethane gas mixture adsorption on exfoliated graphite: Experiments and simulations. *Chemical Physics Letters*, **2016**, 650, 130-137	2.5	2
19	DNA damage induced by bare and loaded microporous coordination polymers from their ground and electronic excited states. *Physical Chemistry Chemical Physics*, **2015**, 17, 12462-5	3.6	8
18	Early stages of ZIF-8 film growth: the enhancement effect of primers exposing sulfonate groups as surface-confined nucleation agents. *RSC Advances*, **2015**, 5, 73958-73962	3.7	13
17	Traveling interface modulations and anisotropic front propagation in ammonia oxidation over Rh(110). *Journal of Chemical Physics*, **2015**, 143, 184701	3.9	4
16	Excitability in the H□O□reaction on a Rh(110) surface induced by high coverages of coadsorbed potassium. *Journal of Chemical Physics*, **2014**, 141, 214707	3.9	1
15	Trivalent cations switch the selectivity in nanopores. *Journal of Molecular Modeling*, **2013**, 19, 2183-8	2	4
14	NO+NH3 reaction over polycrystalline Pt: Numerical analysis of spatio-temporal data and evidence of non-linear behavior. *Chemical Physics*, **2013**, 415, 56-63	2.3	1
13	Heterogeneous catalytic activity of platinum nanoparticles hosted in mesoporous silica thin films modified with polyelectrolyte brushes. *ACS Applied Materials & Interfaces*, **2013**, 5, 8833-40	9.5	29
12	The O2 + NH3 Reaction Over Rh(110): Steady State Kinetics and Oscillatory Behavior. *Catalysis Letters*, **2012**, 142, 16-21	2.8	7
11	Ethane/ethylene adsorption on carbon nanotubes: temperature and size effects on separation capacity. *Langmuir*, **2012**, 28, 1824-32	4	27
10	Low-pressure experiments on Ar□CH4 gaseous mixtures adsorption over exfoliated graphite: Evidence of kinetic selectivity shift. *Chemical Physics Letters*, **2012**, 554, 67-71	2.5	2
9	Traveling interface modulations in the NH3 + O2 reaction on a Rh(110) surface. *Physical Chemistry Chemical Physics*, **2012**, 14, 5260-4	3.6	13
8	Adsorption of CO2/CH4 Mixtures in a Molecular Model of Activated Carbon through Monte Carlo Simulations. *Adsorption Science and Technology*, **2012**, 30, 669-689	3.6	18

7	Modeling ammonia oxidation over a Pt (533) surface. *Surface Science*, **2012**, 606, 12-20	1.8	19
6	Homogeneous and front-induced surface transformations during catalytic oxidation of ammonia over Pt(1 0 0). *Chemical Physics Letters*, **2007**, 446, 323-328	2.5	6
5	Catalytic reduction of NO with NH3 on a Pt(100) surface: Monte Carlo simulations. *Physical Review E*, **2007**, 75, 061121	2.4	11
4	Simulation of the life cycle of adsorbate islands on the Pt(1 0 0) surface during the NO + NH3 reaction. *Chemical Physics Letters*, **2006**, 421, 577-583	2.5	10
3	EXTENDED MEAN FIELD APPROACH TO ANALYZING PATTERN FORMATION IN SURFACE CHEMICAL REACTIONS. *Surface Review and Letters*, **2004**, 11, 57-70	1.1	1
2	Adiabatic reduction and hysteresis of the LFI model for NO + NH3 on Pt{1 0 0}. *Chemical Physics Letters*, **2003**, 382, 232-244	2.5	16
1	Nanoarchitectonics of metal organic frameworks and PEDOT layer-by-layer electrodes for boosting oxygen reduction reaction. *Materials Advances*,	3.3	2