

Matias Rafti

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Review of biosensing with whispering-gallery mode lasers. <i>Light: Science and Applications</i> , 2021 , 10, 42	16.7	56
41	Heterogeneous catalytic activity of platinum nanoparticles hosted in mesoporous silica thin films modified with polyelectrolyte brushes. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8833-40	9.5	29
40	Ethane/ethylene adsorption on carbon nanotubes: temperature and size effects on separation capacity. <i>Langmuir</i> , 2012 , 28, 1824-32	4	27
39	Metal-Organic Frameworks Help Conducting Polymers Optimize the Efficiency of the Oxygen Reduction Reaction in Neutral Solutions. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600047	4.6	26
38	Layer-by-layer integration of conducting polymers and metal organic frameworks onto electrode surfaces: enhancement of the oxygen reduction reaction through electrocatalytic nanoarchitectonics. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 893-900	4.6	24
37	Modeling ammonia oxidation over a Pt (533) surface. <i>Surface Science</i> , 2012 , 606, 12-20	1.8	19
36	Adsorption of CO ₂ /CH ₄ Mixtures in a Molecular Model of Activated Carbon through Monte Carlo Simulations. <i>Adsorption Science and Technology</i> , 2012 , 30, 669-689	3.6	18
35	Metal-organic frameworks meet polymer brushes: enhanced crystalline film growth induced by macromolecular primers. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2256-2260	7.8	16
34	Adiabatic reduction and hysteresis of the LFI model for NO + NH ₃ on Pt{1 0 0}. <i>Chemical Physics Letters</i> , 2003 , 382, 232-244	2.5	16
33	Photophysical and Photochemical Properties of Naturally Occurring normelinone F and Melinone F Alkaloids and Structurally Related N(2)- and/or N(9)-methyl-Carboline Derivatives. <i>Photochemistry and Photobiology</i> , 2018 , 94, 36-51	3.6	15
32	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. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 1100-1109	2.8	15
31	Cysteamine-modified ZIF-8 colloidal building blocks: Direct assembly of nanoparticulate MOF films on gold surfaces via thiol chemistry. <i>Materials Today Chemistry</i> , 2018 , 8, 29-35	6.2	14
30	Molecular transport properties of ZIF-8 thin films in aqueous environments: The critical role of intergrain mesoporosity as diffusional pathway. <i>Microporous and Mesoporous Materials</i> , 2016 , 220, 253-257	5.3	13
29	Early stages of ZIF-8 film growth: the enhancement effect of primers exposing sulfonate groups as surface-confined nucleation agents. <i>RSC Advances</i> , 2015 , 5, 73958-73962	3.7	13
28	Traveling interface modulations in the NH ₃ + O ₂ reaction on a Rh(110) surface. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5260-4	3.6	13
27	MOF@PEDOT Composite Films for Impedimetric Pesticide Sensors. <i>Global Challenges</i> , 2020 , 4, 1900076	4.3	12
26	Modulation of Hydrophilic/Hydrophobic Character of Porous Environments in Metal-Organic Frameworks via Direct Polymer Capping Probed by NMR Diffusion Measurements. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21076-21082	3.8	11

25	Catalytic reduction of NO with NH ₃ on a Pt(100) surface: Monte Carlo simulations. <i>Physical Review E</i> , 2007 , 75, 061121	2.4	11
24	Synthesis and characterization of thermoresponsive ZIF-8@PNIPAm-MAA microgel composites with enhanced performance as an adsorption/release platform.. <i>RSC Advances</i> , 2020 , 10, 2453-2461	3.7	10
23	Simulation of the life cycle of adsorbate islands on the Pt(1 0 0) surface during the NO + NH ₃ reaction. <i>Chemical Physics Letters</i> , 2006 , 421, 577-583	2.5	10
22	DNA damage induced by bare and loaded microporous coordination polymers from their ground and electronic excited states. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 12462-5	3.6	8
21	The O ₂ + NH ₃ Reaction Over Rh(110): Steady State Kinetics and Oscillatory Behavior. <i>Catalysis Letters</i> , 2012 , 142, 16-21	2.8	7
20	Homogeneous and front-induced surface transformations during catalytic oxidation of ammonia over Pt(1 0 0). <i>Chemical Physics Letters</i> , 2007 , 446, 323-328	2.5	6
19	Growth of ZIF-8 MOF Films with Tunable Porosity by using Poly (1-vinylimidazole) Brushes as 3D Primers. <i>Chemistry - A European Journal</i> , 2020 , 26, 12388-12396	4.8	6
18	Lectin-Recognizable MOF Glyconanoparticles: Supramolecular Glycosylation of ZIF-8 Nanocrystals by Sugar-Based Surfactants. <i>ACS Omega</i> , 2019 , 4, 842-848	3.9	6
17	Polyelectrolyte Capping As Straightforward Approach toward Manipulation of Diffusive Transport in MOF Films. <i>Langmuir</i> , 2018 , 34, 425-431	4	5
16	Powering Up the Oxygen Reduction Reaction through the Integration of O ₂ -Adsorbing Metal-Organic Frameworks on Nanocomposite Electrodes. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	5
15	Trivalent cations switch the selectivity in nanopores. <i>Journal of Molecular Modeling</i> , 2013 , 19, 2183-8	2	4
14	Traveling interface modulations and anisotropic front propagation in ammonia oxidation over Rh(110). <i>Journal of Chemical Physics</i> , 2015 , 143, 184701	3.9	4
13	MCM-41-based composite with enhanced stability for Cr(VI) removal from aqueous media. <i>Solid State Sciences</i> , 2020 , 106, 106300	3.4	3
12	Photosensitizing properties of hollow microcapsules built by multilayer self-assembly of poly(allylamine hydrochloride) modified with rose Bengal.. <i>RSC Advances</i> , 2019 , 9, 19226-19235	3.7	2
11	Low-pressure experiments on Ar/H ₂ gaseous mixtures adsorption over exfoliated graphite: Evidence of kinetic selectivity shift. <i>Chemical Physics Letters</i> , 2012 , 554, 67-71	2.5	2
10	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. <i>Molecular Systems Design and Engineering</i> , 2022 , 7, 101-111	4.6	2
9	Self-Assembled Mesoporous Zeolitic Imidazolate Framework-8 (ZIF-8) Nanocrystals Bearing Thiol Groups for Separations Technologies. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11266-11273	5.6	2
8	Low-pressure equilibrium binary argon-methane gas mixture adsorption on exfoliated graphite: Experiments and simulations. <i>Chemical Physics Letters</i> , 2016 , 650, 130-137	2.5	2

7	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. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1185-1194	3.2	2
6	Nanoarchitectonics of metal organic frameworks and PEDOT layer-by-layer electrodes for boosting oxygen reduction reaction. <i>Materials Advances</i> ,	3.3	2
5	NO+NH ₃ reaction over polycrystalline Pt: Numerical analysis of spatio-temporal data and evidence of non-linear behavior. <i>Chemical Physics</i> , 2013 , 415, 56-63	2.3	1
4	Excitability in the H ₂ O ₂ reaction on a Rh(110) surface induced by high coverages of coadsorbed potassium. <i>Journal of Chemical Physics</i> , 2014 , 141, 214707	3.9	1
3	EXTENDED MEAN FIELD APPROACH TO ANALYZING PATTERN FORMATION IN SURFACE CHEMICAL REACTIONS. <i>Surface Review and Letters</i> , 2004 , 11, 57-70	1.1	1
2	Shelter for Biologically Relevant Molecules: Photoprotection and Enhanced Thermal Stability of Folic Acid Loaded in a ZIF-8 MOF Porous Host. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22155-22162	3.9	0
1	DESCRIPTION OF CHEMICALLY AND THERMALLY TREATED MULTI-WALLED CARBON NANOTUBES USING SEQUENTIAL DECOMPOSITION OF ADSORPTION ISOTHERMS. <i>Surface Review and Letters</i> , 2016 , 23, 1650025	1.1	