

# Gemma Turnes Palomino

## List of Publications by Year in Descending Order

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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.

85  
papers

4,163  
citations

35  
h-index

62  
g-index

86  
ext. papers

4,445  
ext. citations

4.8  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
85	Magnetic porous carbons derived from cobalt(ii)-based metal-organic frameworks for the solid-phase extraction of sulfonamides. <i>Dalton Transactions</i> , <b>2020</b> , 49, 8959-8966	4.3	12
84	Metal-Organic Framework@Carbon Hybrid Magnetic Material as an Efficient Adsorbent for Pollutant Extraction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 6419-6425	9.5	18
83	Automated on-line monitoring of the TiO <sub>2</sub> -based photocatalytic degradation of dimethyl phthalate and diethyl phthalate. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 863-870	4.2	11
82	Carbon composite membrane derived from MIL-125-NH MOF for the enhanced extraction of emerging pollutants. <i>Chemosphere</i> , <b>2019</b> , 231, 510-517	8.4	15
81	Metal-Organic framework mixed-matrix coatings on 3D printed devices. <i>Applied Materials Today</i> , <b>2019</b> , 16, 21-27	6.6	30
80	Hyperporous carbon-coated 3D printed devices. <i>Applied Materials Today</i> , <b>2019</b> , 14, 29-34	6.6	12
79	Immobilization of Metal-Organic Frameworks on Supports for Sample Preparation and Chromatographic Separation. <i>Chromatographia</i> , <b>2019</b> , 82, 361-375	2.1	20
78	Synthesis of Cr-doped TiO <sub>2</sub> nanoparticles: characterization and evaluation of their visible photocatalytic performance and stability. <i>Environmental Technology (United Kingdom)</i> , <b>2019</b> , 40, 144-153 <sup>2.6</sup>	2.6	10
77	Determination of phthalate acid esters plasticizers in polyethylene terephthalate bottles and its correlation with some physicochemical properties. <i>Polymer Testing</i> , <b>2018</b> , 68, 87-94	4.5	25
76	UiO-66 derived etched carbon/polymer membranes: High-performance supports for the extraction of organic pollutants from water. <i>Chemical Engineering Journal</i> , <b>2018</b> , 346, 85-93	14.7	40
75	Automated solid-phase extraction of phenolic acids using layered double hydroxide-alumina-polymer disks. <i>Journal of Separation Science</i> , <b>2018</b> , 41, 2012-2019	3.4	12
74	Emerging materials for sample preparation. <i>Journal of Separation Science</i> , <b>2018</b> , 41, 262-287	3.4	26
73	Nanoparticle@Metal-Organic Frameworks as a Template for Hierarchical Porous Carbon Sponges. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 13450-13456	4.8	4
72	In-syringe dispersive SPE of estrogens using magnetic carbon microparticles obtained from zeolitic imidazolate frameworks. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 225-234	4.4	22
71	Metal-organic framework mixed-matrix disks: Versatile supports for automated solid-phase extraction prior to chromatographic separation. <i>Journal of Chromatography A</i> , <b>2017</b> , 1488, 1-9	4.5	45
70	Magnetic solid-phase extraction using metal-organic frameworks (MOFs) and their derived carbons. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2017</b> , 90, 142-152	14.6	184
69	Nanoparticle-Directed Metal-Organic Framework/Porous Organic Polymer Monolithic Supports for Flow-Based Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1728-1736	9.5	30

68	Photocatalytic behaviour of WO/TiO-N for diclofenac degradation using simulated solar radiation as an activation source. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 4613-4624	5.1	24
67	UV and visible activation of Cr(III)-doped TiO catalyst prepared by a microwave-assisted sol-gel method during MCPA degradation. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 12673-12682	5.1	21
66	Incorporation of zeolitic imidazolate framework (ZIF-8)-derived nanoporous carbons in methacrylate polymeric monoliths for capillary electrochromatography. <i>Talanta</i> , <b>2017</b> , 164, 348-354	6.2	30
65	Metal Oxide Assisted Preparation of Core-Shell Beads with Dense Metal-Organic Framework Coatings for the Enhanced Extraction of Organic Pollutants. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 11770-7	4.8	20
64	Submicrometric Magnetic Nanoporous Carbons Derived from Metal-Organic Frameworks Enabling Automated Electromagnet-Assisted Online Solid-Phase Extraction. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6990-5	7.8	34
63	Automatic In-Syringe Dispersive Microsolid Phase Extraction Using Magnetic Metal-Organic Frameworks. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 7545-9	7.8	61
62	A rapid microwave-assisted synthesis of a sodium-cadmium metal-organic framework having improved performance as a CO <sub>2</sub> adsorbent for CCS. <i>Dalton Transactions</i> , <b>2015</b> , 44, 9955-63	4.3	27
61	Automated growth of metal-organic framework coatings on flow-through functional supports. <i>Chemical Communications</i> , <b>2015</b> , 51, 8169-72	5.8	22
60	Zeolitic imidazolate framework dispersions for the fast and highly efficient extraction of organic micropollutants. <i>RSC Advances</i> , <b>2015</b> , 5, 28203-28210	3.7	27
59	Enhanced CO <sub>2</sub> adsorption capacity of amine-functionalized MIL-100(Cr) metal-organic frameworks. <i>CrystEngComm</i> , <b>2015</b> , 17, 430-437	3.3	42
58	Carbon dioxide adsorption on MIL-100(M) (M = Cr, V, Sc) metal-organic frameworks: IR spectroscopic and thermodynamic studies. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 190, 234-239	5.3	35
57	Infrared spectroscopic and thermodynamic study on hydrogen adsorption on the metal organic framework MIL-100(Sc). <i>Chemical Physics Letters</i> , <b>2012</b> , 521, 104-106	2.5	15
56	Controlling the adsorption enthalpy of CO <sub>2</sub> in zeolites by framework topology and composition. <i>ChemSusChem</i> , <b>2012</b> , 5, 2011-22	8.3	83
55	Enthalpy-Entropy Correlation for Hydrogen Adsorption on MOFs: Variable-Temperature FTIR Study of Hydrogen Adsorption on MIL-100(Cr) and MIL-101(Cr). <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 1703-1708	2.3	24
54	Computational and Experimental Studies on the Adsorption of CO, N <sub>2</sub> , and CO <sub>2</sub> on Mg-MOF-74. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11185-11191	3.8	267
53	Thermodynamics of hydrogen adsorption on metal-organic frameworks. <i>ChemPhysChem</i> , <b>2010</b> , 11, 3237-42	4.2	42
52	Hydrogen adsorption on the faujasite-type zeolite Mg $\alpha$ : An IR spectroscopic and thermodynamic study. <i>Applied Surface Science</i> , <b>2010</b> , 256, 5281-5284	6.7	17
51	Thermodynamics of hydrogen adsorption on calcium-exchanged faujasite-type zeolites. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 4371-4378	6.7	31

50	Hydrogen adsorption on the zeolite Ca-A: DFT and FT-IR investigation. <i>Chemical Physics Letters</i> , <b>2009</b> , 477, 139-143	2.5	34
49	Thermodynamics of hydrogen adsorption on the zeolite Ca-Y. <i>Catalysis Today</i> , <b>2008</b> , 138, 249-252	5.3	21
48	Variable temperature FT-IR studies on hydrogen adsorption on the zeolite (Mg,Na)-Y. <i>Applied Surface Science</i> , <b>2007</b> , 253, 5701-5704	6.7	29
47	Caractérisation des analcimites du bassin de Tim Merso (Nord du Niger) par diffraction des rayons X. <i>Comptes Rendus Chimie</i> , <b>2007</b> , 10, 546-551	2.7	
46	Periodic density functional and FTIR spectroscopic studies on CO adsorption on the zeolite Na-FER. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 106, 162-173	5.3	42
45	Negative electrodes for lithium ion batteries: Tin/silica nanocomposites obtained from chemical reduction of SnI <sub>4</sub> grafted Si-MCM-41. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 093125	3.4	2
44	Hydrogen adsorption on magnesium-exchanged zeolites. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 2884-2885		80
43	FTIR spectroscopic and computational studies on hydrogen adsorption on the zeolite Li-FER. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 2286-92	3.6	54
42	Single and dual cation sites in zeolites: theoretical calculations and FTIR spectroscopic studies on CO adsorption on K-FER. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 22542-50	3.4	75
41	Combined theoretical and FTIR spectroscopic studies on hydrogen adsorption on the zeolites Na-FER and K-FER. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 395-402	3.4	67
40	Electrochemical properties of mesoporous iron phosphate in lithium batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2006</b> , 10, 1-9	2.6	26
39	Methylene blue encapsulated in silica-based mesophases: characterisation and electrochemical activity. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 79, 275-281	5.3	28
38	Thermodynamic studies on hydrogen adsorption on the zeolites Na-ZSM-5 and K-ZSM-5. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 80, 247-252	5.3	53
37	Isomeric states of polar molecules on ionic surfaces: electrostatic model and FTIR studies. <i>Applied Surface Science</i> , <b>2004</b> , 238, 390-394	6.7	17
36	Thermodynamics of hydrogen adsorption on the zeolite Li-ZSM-5. <i>Chemical Physics Letters</i> , <b>2003</b> , 370, 631-635	2.5	89
35	Spectroscopic and Thermodynamic Characterization of Strontium Carbonyls Formed upon Carbon Monoxide Adsorption on the Zeolite SrY. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 2537-2542	3.4	19
34	Thermal Reduction of Cu <sup>2+</sup> /Mordenite and Re-oxidation upon Interaction with H <sub>2</sub> O, O <sub>2</sub> , and NO. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 7036-7044	3.4	135
33	Quantum Chemical and FTIR Spectroscopic Studies on the Linkage Isomerism of Carbon Monoxide in Alkali-Metal-Exchanged Zeolites: A Review of Current Research. <i>International Journal of Molecular Sciences</i> , <b>2002</b> , 3, 764-776	6.3	23

32	Linkage isomerism of carbonyl coordination complexes formed upon CO adsorption on the zeolite Li-ZSM-5: variable-temperature FTIR studies. <i>Chemical Physics Letters</i> , <b>2002</b> , 362, 109-113	2.5	24
31	An in situ temperature dependent IR, EPR and high resolution XANES study on the NO/Cu-ZSM-5 interaction. <i>Chemical Physics Letters</i> , <b>2002</b> , 363, 389-396	2.5	91
30	Variable-temperature infrared spectroscopy: An access to adsorption thermodynamics of weakly interacting systems. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 5713-5715	3.6	65
29	Calorimetric and spectroscopic study of the coordinative unsaturation of copper(I) and silver(I) cations in ZSM-5 zeolite: Room temperature adsorption of NH <sub>3</sub> . <i>Thermochimica Acta</i> , <b>2001</b> , 379, 131-145 <sup>2-9</sup>	2.9	23
28	Variable-temperature infrared spectrometry of carbon monoxide adsorbed on the zeolite K-ZSM-5. <i>Vibrational Spectroscopy</i> , <b>2001</b> , 26, 107-111	2.1	33
27	Alkyne polymerization on the titanosilicate molecular sieve ETS-10. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 1228-1231	3.6	21
26	Formation and partial self-healing of lattice defects during thermal treatments of GaZSM-5: An FTIR study using CO as a probe molecule. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 1223-1227	3.6	16
25	Amphipathic hydrogen bonding of CO in protonic zeolites. <i>Chemical Communications</i> , <b>2001</b> , 455-456	5.8	17
24	Structure of Homoleptic CuI(CO) <sub>3</sub> Cations in CuI-Exchanged ZSM-5 Zeolite: An X-ray Absorption Study. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 2138-2141	16.4	86
23	Vibrational spectroscopy of H <sub>2</sub> , N <sub>2</sub> , CO and NO adsorbed on H, Li, Na, K-exchanged ferrierite. <i>Microporous and Mesoporous Materials</i> , <b>2000</b> , 34, 67-80	5.3	78
22	Vibrational spectroscopy of carbon monoxide and dinitrogen adsorbed on magnesium-exchanged ETS-10 molecular sieve. <i>Catalysis Letters</i> , <b>2000</b> , 66, 231-235	2.8	18
21	Alumina-Supported Copper Chloride. <i>Journal of Catalysis</i> , <b>2000</b> , 189, 91-104	7.3	87
20	Stoichiometric and sodium-doped titanium silicate molecular sieve containing atomically defined TiO <sub>2</sub> chains: Quantum ab initio calculations, spectroscopic properties, and reactivity. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 3859-3867	3.9	59
19	X-ray photoelectron spectroscopy and x-ray absorption near edge structure study of copper sites hosted at the internal surface of ZSM-5 zeolite: A comparison with quantitative and energetic data on the CO and NH <sub>3</sub> adsorption. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 9248-9261	3.9	86
18	XRD, XAS, and IR Characterization of Copper-Exchanged Y Zeolite. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 8641-8651	3.4	223
17	Oxidation States of Copper Ions in ZSM-5 Zeolites. A Multitechnique Investigation. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 4064-4073	3.4	218
16	The vibrational spectroscopy of H <sub>2</sub> , N <sub>2</sub> , CO and NO adsorbed on the titanosilicate molecular sieve ETS-10. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 1649-1657	3.6	103
15	Well defined carbonyl complexes in Ag <sup>+</sup> - and Cu <sup>+</sup> -exchanged ZSM-5 zeolite: a comparison with homogeneous counterparts. <i>Journal of Molecular Catalysis A</i> , <b>1999</b> , 146, 97-106		43

14	Nitrosylic complexes in Ag(I)-ZSM-5: a comparison with Cu(I)-ZSM-5. <i>Microporous and Mesoporous Materials</i> , <b>1999</b> , 30, 129-135	5.3	24
13	CF <sub>3</sub> SO <sub>3</sub> H and CF <sub>3</sub> SO <sub>3</sub> H/CD <sub>3</sub> CN adducts in silicalite channels as model systems for H-ZSM-5 Brønsted acidity evaluation. <i>Catalysis Letters</i> , <b>1999</b> , 60, 139-143	2.8	7
12	EXAFS studies on MFI-type gallosilicate molecular sieves. <i>Catalysis Letters</i> , <b>1999</b> , 63, 213-216	2.8	32
11	Cation-carbon stretching vibration of adducts formed upon CO adsorption on alkaline zeolites. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 4139-4140	3.6	30
10	Spectroscopic study in the UV-Vis, near and mid IR of cationic species formed by interaction of thiophene, dithiophene and terthiophene with the zeolite H-Y. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 561-569	3.6	36
9	Mono-, Di-, and Tricarbonylic Species in Copper(I)-Exchanged Zeolite ZSM-5: Comparison with Homogeneous Copper(I) Carbonylic Structures. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 3833-3844	3.4	92
8	Preparation and characterization of spinel-type high surface area Al <sub>2</sub> O <sub>3</sub> -ZnAl <sub>2</sub> O <sub>4</sub> mixed metal oxides by an alkoxide route. <i>Microporous Materials</i> , <b>1997</b> , 8, 187-192		47
7	CuI-Y and CuII-Y zeolites: a XANES, EXAFS and visible-NIR study. <i>Chemical Physics Letters</i> , <b>1997</b> , 269, 500-508		75
6	Infrared studies of the interaction of carbon monoxide and dinitrogen with ferrisilicate MFI-type zeolites. <i>Catalysis Letters</i> , <b>1996</b> , 42, 25-33	2.8	55
5	Reply to Comments on N <sub>2</sub> Adsorption at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites: An IR Study. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 18883-18883		5
4	Characterization of Gallosilicate MFI-Type Zeolites by IR Spectroscopy of Adsorbed Probe Molecules. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 6678-6690		82
3	N <sub>2</sub> Adsorption at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites: An IR Study. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 11167-11177		101
2	Fourier-Transform Infrared Study of CO Adsorbed at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites. <i>Langmuir</i> , <b>1995</b> , 11, 527-533	4	138
1	Preparation and Characterization of High Surface Area Al <sub>2</sub> O <sub>3</sub> -MgAl <sub>2</sub> O <sub>4</sub> Solid Solutions. <i>Journal of Catalysis</i> , <b>1994</b> , 148, 403-405	7.3	16