

Gemma Turnes Palomino

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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	Computational and Experimental Studies on the Adsorption of CO, N ₂ , and CO ₂ on Mg-MOF-74. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11185-11191	3.8	267
84	XRD, XAS, and IR Characterization of Copper-Exchanged Y Zeolite. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8641-8651	3.4	223
83	Oxidation States of Copper Ions in ZSM-5 Zeolites. A Multitechnique Investigation. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4064-4073	3.4	218
82	Magnetic solid-phase extraction using metal-organic frameworks (MOFs) and their derived carbons. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 90, 142-152	14.6	184
81	Fourier-Transform Infrared Study of CO Adsorbed at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites. <i>Langmuir</i> , 1995 , 11, 527-533	4	138
80	Thermal Reduction of Cu ²⁺ /Mordenite and Re-oxidation upon Interaction with H ₂ O, O ₂ , and NO. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7036-7044	3.4	135
79	The vibrational spectroscopy of H ₂ , N ₂ , CO and NO adsorbed on the titanosilicate molecular sieve ETS-10. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 1649-1657	3.6	103
78	N ₂ Adsorption at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites: An IR Study. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11167-11177		101
77	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> , 1999 , 103, 3833-3844	3.4	92
76	An in situ temperature dependent IR, EPR and high resolution XANES study on the NO/Cu ⁺ /ZSM-5 interaction. <i>Chemical Physics Letters</i> , 2002 , 363, 389-396	2.5	91
75	Thermodynamics of hydrogen adsorption on the zeolite Li-ZSM-5. <i>Chemical Physics Letters</i> , 2003 , 370, 631-635	2.5	89
74	Alumina-Supported Copper Chloride. <i>Journal of Catalysis</i> , 2000 , 189, 91-104	7.3	87
73	Structure of Homoleptic CuI(CO) ₃ Cations in CuI-Exchanged ZSM-5 Zeolite: An X-ray Absorption Study. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2138-2141	16.4	86
72	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 ₃ adsorption. <i>Journal of Chemical Physics</i> , 2000 , 113, 9248-9261	3.9	86
71	Controlling the adsorption enthalpy of CO(2) in zeolites by framework topology and composition. <i>ChemSusChem</i> , 2012 , 5, 2011-22	8.3	83
70	Characterization of Gallosilicate MFI-Type Zeolites by IR Spectroscopy of Adsorbed Probe Molecules. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6678-6690		82
69	Hydrogen adsorption on magnesium-exchanged zeolites. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2884-2885		80

68	Vibrational spectroscopy of H ₂ , N ₂ , CO and NO adsorbed on H, Li, Na, K-exchanged ferrierite. <i>Microporous and Mesoporous Materials</i> , 2000 , 34, 67-80	5.3	78
67	CuI-Y and CuII-Y zeolites: a XANES, EXAFS and visible-NIR study. <i>Chemical Physics Letters</i> , 1997 , 269, 500-508	5.8	75
66	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> , 2006 , 110, 22542-50	3.4	75
65	Combined theoretical and FTIR spectroscopic studies on hydrogen adsorption on the zeolites Na-FER and K-FER. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 395-402	3.4	67
64	Variable-temperature infrared spectroscopy: An access to adsorption thermodynamics of weakly interacting systems. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 5713-5715	3.6	65
63	Automatic In-Syringe Dispersive Microsolid Phase Extraction Using Magnetic Metal-Organic Frameworks. <i>Analytical Chemistry</i> , 2015 , 87, 7545-9	7.8	61
62	Stoichiometric and sodium-doped titanium silicate molecular sieve containing atomically defined TiO ₂ chains: Quantum ab initio calculations, spectroscopic properties, and reactivity. <i>Journal of Chemical Physics</i> , 2000 , 112, 3859-3867	3.9	59
61	Infrared studies of the interaction of carbon monoxide and dinitrogen with ferrisilicate MFI-type zeolites. <i>Catalysis Letters</i> , 1996 , 42, 25-33	2.8	55
60	FTIR spectroscopic and computational studies on hydrogen adsorption on the zeolite Li-FER. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 2286-92	3.6	54
59	Thermodynamic studies on hydrogen adsorption on the zeolites Na-ZSM-5 and K-ZSM-5. <i>Microporous and Mesoporous Materials</i> , 2005 , 80, 247-252	5.3	53
58	Preparation and characterization of spinel-type high surface area Al ₂ O ₃ -ZnAl ₂ O ₄ mixed metal oxides by an alkoxide route. <i>Microporous Materials</i> , 1997 , 8, 187-192		47
57	Metal-organic framework mixed-matrix disks: Versatile supports for automated solid-phase extraction prior to chromatographic separation. <i>Journal of Chromatography A</i> , 2017 , 1488, 1-9	4.5	45
56	Well defined carbonyl complexes in Ag ⁺ and Cu ⁺ -exchanged ZSM-5 zeolite: a comparison with homogeneous counterparts. <i>Journal of Molecular Catalysis A</i> , 1999 , 146, 97-106		43
55	Enhanced CO ₂ adsorption capacity of amine-functionalized MIL-100(Cr) metal-organic frameworks. <i>CrystEngComm</i> , 2015 , 17, 430-437	3.3	42
54	Thermodynamics of hydrogen adsorption on metal-organic frameworks. <i>ChemPhysChem</i> , 2010 , 11, 3237-42	4.2	42
53	Periodic density functional and FTIR spectroscopic studies on CO adsorption on the zeolite Na-FER. <i>Microporous and Mesoporous Materials</i> , 2007 , 106, 162-173	5.3	42
52	UiO-66 derived etched carbon/polymer membranes: High-performance supports for the extraction of organic pollutants from water. <i>Chemical Engineering Journal</i> , 2018 , 346, 85-93	14.7	40
51	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> , 1999 , 1, 561-569	3.6	36

50	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> , 2014 , 190, 234-239	5.3	35
49	Submicrometric Magnetic Nanoporous Carbons Derived from Metal-Organic Frameworks Enabling Automated Electromagnet-Assisted Online Solid-Phase Extraction. <i>Analytical Chemistry</i> , 2016 , 88, 6990-6997	7.8	34
48	Hydrogen adsorption on the zeolite Ca-A: DFT and FT-IR investigation. <i>Chemical Physics Letters</i> , 2009 , 477, 139-143	2.5	34
47	Variable-temperature infrared spectrometry of carbon monoxide adsorbed on the zeolite K-ZSM-5. <i>Vibrational Spectroscopy</i> , 2001 , 26, 107-111	2.1	33
46	EXAFS studies on MFI-type gallosilicate molecular sieves. <i>Catalysis Letters</i> , 1999 , 63, 213-216	2.8	32
45	Thermodynamics of hydrogen adsorption on calcium-exchanged faujasite-type zeolites. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4371-4378	6.7	31
44	Nanoparticle-Directed Metal-Organic Framework/Porous Organic Polymer Monolithic Supports for Flow-Based Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1728-1736	9.5	30
43	Metal-organic framework mixed-matrix coatings on 3D printed devices. <i>Applied Materials Today</i> , 2019 , 16, 21-27	6.6	30
42	Incorporation of zeolitic imidazolate framework (ZIF-8)-derived nanoporous carbons in methacrylate polymeric monoliths for capillary electrochromatography. <i>Talanta</i> , 2017 , 164, 348-354	6.2	30
41	Cation-carbon stretching vibration of adducts formed upon CO adsorption on alkaline zeolites. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4139-4140	3.6	30
40	Variable temperature FT-IR studies on hydrogen adsorption on the zeolite (Mg,Na)-Y. <i>Applied Surface Science</i> , 2007 , 253, 5701-5704	6.7	29
39	Methylene blue encapsulated in silica-based mesophases: characterisation and electrochemical activity. <i>Microporous and Mesoporous Materials</i> , 2005 , 79, 275-281	5.3	28
38	A rapid microwave-assisted synthesis of a sodium-cadmium metal-organic framework having improved performance as a CO ₂ adsorbent for CCS. <i>Dalton Transactions</i> , 2015 , 44, 9955-63	4.3	27
37	Zeolitic imidazolate framework dispersions for the fast and highly efficient extraction of organic micropollutants. <i>RSC Advances</i> , 2015 , 5, 28203-28210	3.7	27
36	Emerging materials for sample preparation. <i>Journal of Separation Science</i> , 2018 , 41, 262-287	3.4	26
35	Electrochemical properties of mesoporous iron phosphate in lithium batteries. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 1-9	2.6	26
34	Determination of phthalate acid esters plasticizers in polyethylene terephthalate bottles and its correlation with some physicochemical properties. <i>Polymer Testing</i> , 2018 , 68, 87-94	4.5	25
33	Photocatalytic behaviour of WO ₃ /TiO ₂ -N for diclofenac degradation using simulated solar radiation as an activation source. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 4613-4624	5.1	24

32	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> , 2011 , 2011, 1703-1708	2.3	24
31	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> , 2002 , 362, 109-113	2.5	24
30	Nitrosylic complexes in Ag(I)-ZSM-5: a comparison with Cu(I)-ZSM-5. <i>Microporous and Mesoporous Materials</i> , 1999 , 30, 129-135	5.3	24
29	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> , 2002 , 3, 764-776	6.3	23
28	Calorimetric and spectroscopic study of the coordinative unsaturation of copper(I) and silver(I) cations in ZSM-5 zeolite: Room temperature adsorption of NH ₃ . <i>Thermochimica Acta</i> , 2001 , 379, 131-145	2.9	23
27	In-syringe dispersive SPE of estrogens using magnetic carbon microparticles obtained from zeolitic imidazolate frameworks. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 225-234	4.4	22
26	Automated growth of metal-organic framework coatings on flow-through functional supports. <i>Chemical Communications</i> , 2015 , 51, 8169-72	5.8	22
25	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> , 2017 , 24, 12673-12682	5.1	21
24	Thermodynamics of hydrogen adsorption on the zeolite Ca-Y. <i>Catalysis Today</i> , 2008 , 138, 249-252	5.3	21
23	Alkyne polymerization on the titanosilicate molecular sieve ETS-10. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 1228-1231	3.6	21
22	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> , 2016 , 22, 11770-7	4.8	20
21	Immobilization of Metal-Organic Frameworks on Supports for Sample Preparation and Chromatographic Separation. <i>Chromatographia</i> , 2019 , 82, 361-375	2.1	20
20	Spectroscopic and Thermodynamic Characterization of Strontium Carbonyls Formed upon Carbon Monoxide Adsorption on the Zeolite Sr γ . <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2537-2542	3.4	19
19	Vibrational spectroscopy of carbon monoxide and dinitrogen adsorbed on magnesium-exchanged ETS-10 molecular sieve. <i>Catalysis Letters</i> , 2000 , 66, 231-235	2.8	18
18	Metal-Organic Framework@Carbon Hybrid Magnetic Material as an Efficient Adsorbent for Pollutant Extraction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6419-6425	9.5	18
17	Hydrogen adsorption on the faujasite-type zeolite Mg γ : An IR spectroscopic and thermodynamic study. <i>Applied Surface Science</i> , 2010 , 256, 5281-5284	6.7	17
16	Isomeric states of polar molecules on ionic surfaces: electrostatic model and FTIR studies. <i>Applied Surface Science</i> , 2004 , 238, 390-394	6.7	17
15	Amphipathic hydrogen bonding of CO in protonic zeolites. <i>Chemical Communications</i> , 2001 , 455-456	5.8	17

14	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> , 2001 , 3, 1223-1227	3.6	16
13	Preparation and Characterization of High Surface Area Al ₂ O ₃ -MgAl ₂ O ₄ Solid Solutions. <i>Journal of Catalysis</i> , 1994 , 148, 403-405	7.3	16
12	Carbon composite membrane derived from MIL-125-NH MOF for the enhanced extraction of emerging pollutants. <i>Chemosphere</i> , 2019 , 231, 510-517	8.4	15
11	Infrared spectroscopic and thermodynamic study on hydrogen adsorption on the metal organic framework MIL-100(Sc). <i>Chemical Physics Letters</i> , 2012 , 521, 104-106	2.5	15
10	Magnetic porous carbons derived from cobalt(ii)-based metal-organic frameworks for the solid-phase extraction of sulfonamides. <i>Dalton Transactions</i> , 2020 , 49, 8959-8966	4.3	12
9	Automated solid-phase extraction of phenolic acids using layered double hydroxide-alumina-polymer disks. <i>Journal of Separation Science</i> , 2018 , 41, 2012-2019	3.4	12
8	Hyperporous carbon-coated 3D printed devices. <i>Applied Materials Today</i> , 2019 , 14, 29-34	6.6	12
7	Automated on-line monitoring of the TiO ₂ -based photocatalytic degradation of dimethyl phthalate and diethyl phthalate. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 863-870	4.2	11
6	Synthesis of Cr-doped TiO ₂ nanoparticles: characterization and evaluation of their visible photocatalytic performance and stability. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 144-153 ^{2.6}		10
5	CF ₃ SO ₃ H and CF ₃ SO ₃ H/CD ₃ CN adducts in silicalite channels as model systems for H-ZSM-5 Brønsted acidity evaluation. <i>Catalysis Letters</i> , 1999 , 60, 139-143	2.8	7
4	Reply to Comments on N ₂ Adsorption at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites: An IR Study. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18883-18883		5
3	Nanoparticle@Metal-Organic Frameworks as a Template for Hierarchical Porous Carbon Sponges. <i>Chemistry - A European Journal</i> , 2018 , 24, 13450-13456	4.8	4
2	Negative electrodes for lithium ion batteries: Tin/silica nanocomposites obtained from chemical reduction of SnI ₄ grafted Si-MCM-41. <i>Applied Physics Letters</i> , 2006 , 89, 093125	3.4	2
1	Caractérisation des analcimolites du bassin de Tim Merso (Nord du Niger) par diffraction des rayons X. <i>Comptes Rendus Chimie</i> , 2007 , 10, 546-551	2.7	