

Carlo Lamberti

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452
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h-index

161
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472
ext. papers

33,953
ext. citations

6.5
avg, IF

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L-index

#	Paper	IF	Citations
452	A new zirconium inorganic building brick forming metal organic frameworks with exceptional stability. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13850-1	16.4	4225
451	Disclosing the Complex Structure of UiO-66 Metal Organic Framework: A Synergic Combination of Experiment and Theory. <i>Chemistry of Materials</i> , 2011 , 23, 1700-1718	9.6	1079
450	Local Structure of Framework Cu(II) in HKUST-1 Metallorganic Framework: Spectroscopic Characterization upon Activation and Interaction with Adsorbates. <i>Chemistry of Materials</i> , 2006 , 18, 1337-1346	9.6	555
449	The inconsistency in adsorption properties and powder XRD data of MOF-5 is rationalized by framework interpenetration and the presence of organic and inorganic species in the nanocavities. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3612-20	16.4	503
448	Structure and Reactivity of Framework and Extraframework Iron in Fe-Silicalite as Investigated by Spectroscopic and Physicochemical Methods. <i>Journal of Catalysis</i> , 1996 , 158, 486-501	7.3	503
447	Reactivity of surface species in heterogeneous catalysts probed by in situ X-ray absorption techniques. <i>Chemical Reviews</i> , 2013 , 113, 1736-850	68.1	481
446	Tuned to Perfection: Ironing Out the Defects in Metal Organic Framework UiO-66. <i>Chemistry of Materials</i> , 2014 , 26, 4068-4071	9.6	472
445	Electronic and vibrational properties of a MOF-5 metal-organic framework: ZnO quantum dot behaviour. <i>Chemical Communications</i> , 2004 , 2300-1	5.8	381
444	The structure of active centers and the ethylene polymerization mechanism on the Cr/SiO ₂ catalyst: a frontier for the characterization methods. <i>Chemical Reviews</i> , 2005 , 105, 115-84	68.1	359
443	Probing the surfaces of heterogeneous catalysts by in situ IR spectroscopy. <i>Chemical Society Reviews</i> , 2010 , 39, 4951-5001	58.5	354
442	H ₂ storage in isostructural UiO-67 and UiO-66 MOFs. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 1614-26	3.6	339
441	XAFS Study of Ti-Silicalite: Structure of Framework Ti(IV) in the Presence and Absence of Reactive Molecules (H ₂ O, NH ₃) and Comparison with Ultraviolet-Visible and IR Results. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 4125-4132		336
440	Adsorption properties of HKUST-1 toward hydrogen and other small molecules monitored by IR. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 2676-85	3.6	321
439	A Consistent Reaction Scheme for the Selective Catalytic Reduction of Nitrogen Oxides with Ammonia. <i>ACS Catalysis</i> , 2015 , 5, 2832-2845	13.1	319
438	Vibrational structure of titanium silicate catalysts. A spectroscopic and theoretical study. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11409-19	16.4	318
437	XAFS, IR, and UV-Vis Study of the CuI Environment in CuI-ZSM-5. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 344-360	3.4	303
436	Revisiting the nature of Cu sites in the activated Cu-SSZ-13 catalyst for SCR reaction. <i>Chemical Science</i> , 2015 , 6, 548-563	9.4	265

435	Characterization of Cu-exchanged SSZ-13: a comparative FTIR, UV-Vis, and EPR study with Cu-ZSM-5 and Cu- β with similar Si/Al and Cu/Al ratios. <i>Dalton Transactions</i> , 2013 , 42, 12741-61	4.3	247
434	Probing zeolites by vibrational spectroscopies. <i>Chemical Society Reviews</i> , 2015 , 44, 7262-341	58.5	241
433	XRD, XAS, and IR Characterization of Copper-Exchanged Y Zeolite. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8641-8651	3.4	223
432	Detailed Structure Analysis of Atomic Positions and Defects in Zirconium Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2014 , 14, 5370-5372	3.5	219
431	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
430	Interaction of NH ₃ with Cu-SSZ-13 Catalyst: A Complementary FTIR, XANES, and XES Study. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1552-9	6.4	209
429	Structure and nuclearity of active sites in Fe-zeolites: comparison with iron sites in enzymes and homogeneous catalysts. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 3483-99	3.6	207
428	Methane to Methanol: Structure-Activity Relationships for Cu-CHA. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14961-14975	16.4	202
427	Metal-organic frameworks: structure, properties, methods of synthesis and characterization. <i>Russian Chemical Reviews</i> , 2016 , 85, 280-307	6.8	198
426	The Cu-CHA deNO _x Catalyst in Action: Temperature-Dependent NH ₃ -Assisted Selective Catalytic Reduction Monitored by Operando XAS and XES. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12025-8	16.4	197
425	Advanced X-ray absorption and emission spectroscopy: in situ catalytic studies. <i>Chemical Society Reviews</i> , 2010 , 39, 4754-66	58.5	193
424	Carbon monoxide MgO from dispersed solids to single crystals: a review and new advances. <i>Progress in Surface Science</i> , 2004 , 76, 71-146	6.6	193
423	Interaction of Pyridine with Acidic (H-ZSM5, H- β -H-MORD Zeolites) and Superacidic (H-Nafion Membrane) Systems: An IR Investigation. <i>Langmuir</i> , 1996 , 12, 930-940	4	193
422	Liquid hydrogen in protonic chabazite. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6361-6	16.4	189
421	Acidic Properties of H β Zeolite As Probed by Bases with Proton Affinity in the 118-204 kcal mol ⁻¹ Range: A FTIR Investigation. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 4740-4751	3.4	187
420	Ti-Peroxo Species in the TS-1/H ₂ O ₂ /H ₂ O System. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3573-3583	3.4	180
419	Time-resolved in situ studies of oxygen intercalation into SrCoO _{2.5} , performed by neutron diffraction and X-ray absorption spectroscopy. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13161-74	16.4	179
418	Reactivity of Ti(IV) species hosted in TS-1 towards H ₂ O ₂ -H ₂ O solutions investigated by ab initio cluster and periodic approaches combined with experimental XANES and EXAFS data: a review and new highlights. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 4854-78	3.6	176

417	Local Structure of CPO-27-Ni Metallorganic Framework upon Dehydration and Coordination of NO. <i>Chemistry of Materials</i> , 2008 , 20, 4957-4968	9.6	174
416	Structural determination of a highly stable metal-organic framework with possible application to interim radioactive waste scavenging: Hf-UiO-66. <i>Physical Review B</i> , 2012 , 86,	3.3	165
415	Structural characterization of Ti centres in Ti-silicalite and reaction mechanisms in cyclohexanone ammoxidation. <i>Catalysis Today</i> , 1996 , 32, 97-106	5.3	165
414	Ti location in the MFI framework of Ti-Silicalite-1: a neutron powder diffraction study. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2204-12	16.4	163
413	Evidence of the Presence of Two Different Framework Ti(IV) Species in TiSilicalite-1 in Vacuo Conditions: an EXAFS and a Photoluminescence Study. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 6382-6390	3.4	162
412	On the Structure of the Active Site of Ti-Silicalite in Reactions with Hydrogen Peroxide: A Vibrational and Computational Study. <i>Journal of Catalysis</i> , 1998 , 179, 64-71	7.3	158
411	Determination of the oxidation and coordination state of copper on different Cu-based catalysts by XANES spectroscopy in situ or in operando conditions. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 4502-4509	3.6	152
410	Insights into Adsorption of NH ₃ on HKUST-1 MetalOrganic Framework: A Multitechnique Approach. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19839-19850	3.8	149
409	Enhancement of the ETS-10 titanosilicate activity in the shape-selective photocatalytic degradation of large aromatic molecules by controlled defect production. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2264-71	16.4	141
408	Evolution of Extraframework Iron Species in Fe Silicalite. <i>Journal of Catalysis</i> , 2002 , 208, 64-82	7.3	140
407	The structure of the peroxo species in the TS-1 catalyst as investigated by resonant Raman spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4734-7	16.4	139
406	Cu-CHA - a model system for applied selective redox catalysis. <i>Chemical Society Reviews</i> , 2018 , 47, 8097-8133	8.3	138
405	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
404	Optimized Finite Difference Method for the Full-Potential XANES Simulations: Application to Molecular Adsorption Geometries in MOFs and Metal-Ligand Intersystem Crossing Transients. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4512-21	6.4	137
403	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
402	In situ XAS and XRPD parametric rietveld refinement to understand dealumination of Y zeolite catalyst. <i>Journal of the American Chemical Society</i> , 2010 , 132, 667-78	16.4	134
401	Hydroxyls nests in defective silicalites and strained structures derived upon dehydroxylation: vibrational properties and theoretical modelling. <i>Topics in Catalysis</i> , 2001 , 15, 43-52	2.3	134
400	Composition-driven Cu-speciation and reducibility in Cu-CHA zeolite catalysts: a multivariate XAS/FTIR approach to complexity. <i>Chemical Science</i> , 2017 , 8, 6836-6851	9.4	129

399	Low-Temperature Fourier Transform Infrared Study of the Interaction of CO with Cations in Alkali-Metal Exchanged ZSM-5 Zeolites. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 9577-9582		128
398	Cubic octanuclear Ni(II) clusters in highly porous polypyrazolyl-based materials. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7902-4	16.4	126
397	Effect of Benzoic Acid as a Modulator in the Structure of UiO-66: An Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9312-9324	3.8	125
396	Surface acidity and basicity: General concepts. <i>Catalysis Today</i> , 1998 , 41, 169-177	5.3	125
395	Low temperature CO adsorption on Na-ZSM-5 zeolites: An FTIR investigation. <i>Journal of Catalysis</i> , 1992 , 137, 179-185	7.3	124
394	The Nuclearity of the Active Site for Methane to Methanol Conversion in Cu-Mordenite: A Quantitative Assessment. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15270-15278	16.4	123
393	Assessing the acidity of high silica chabazite H-SSZ-13 by FTIR using CO as molecular probe: Comparison with H-SAPO-34. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2779-84	3.4	122
392	CO Adsorption on CPO-27-Ni Coordination Polymer: Spectroscopic Features and Interaction Energy. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3292-3299	3.8	114
391	The architecture of catalytically active centers in titanosilicate (TS-1) and related selective-oxidation catalysts. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 4812-4817	3.6	114
390	Functionalization of UiO-66 MetalOrganic Framework and Highly Cross-Linked Polystyrene with Cr(CO) ₃ : In Situ Formation, Stability, and Photoreactivity. <i>Chemistry of Materials</i> , 2010 , 22, 4602-4611	9.6	113
389	X-ray absorption spectroscopies: useful tools to understand metallorganic frameworks structure and reactivity. <i>Chemical Society Reviews</i> , 2010 , 39, 4885-927	58.5	112
388	The chemistry of the oxychlorination catalyst: an in situ, time-resolved XANES study. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2341-4	16.4	112
387	Determination of the Particle Size, Available Surface Area, and Nature of Exposed Sites for Silica/Alumina-Supported Pd Nanoparticles: A Multitechnical Approach. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10485-10492	3.8	109
386	Cation Location in Dehydrated NaBb Zeolite: An XRD and IR Study. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10653-10660	3.4	107
385	Comparative IR-spectroscopic study of low-temperature H ₂ and CO adsorption on Na zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994 , 90, 3367-3372		105
384	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
383	Structural Characterization of Ti-Silicalite-1: A Synchrotron Radiation X-Ray Powder Diffraction Study. <i>Journal of Catalysis</i> , 1999 , 183, 222-231	7.3	103
382	Neutron powder diffraction study of orthorhombic and monoclinic defective silicalite. <i>Acta Crystallographica Section B: Structural Science</i> , 2000 , 56 (Pt 1), 2-10		102

381	Characterisation of defective silicalites. <i>Dalton Transactions RSC</i> , 2000 , 3921-3929		102
380	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
379	Interaction of CD ₃ CN and Pyridine with the Ti(IV) Centers of TS-1 Catalysts: a Spectroscopic and Computational Study. <i>Langmuir</i> , 2003 , 19, 2155-2161	4	99
378	Cr-MIL-101 encapsulated Keggin phosphotungstic acid as active nanomaterial for catalysing the alcoholysis of styrene oxide. <i>Green Chemistry</i> , 2014 , 16, 1351-1357	10	98
377	Effect of Interaction with H ₂ O and NH ₃ on the Vibrational, Electronic, and Energetic Peculiarities of Ti(IV) Centers TS-1 Catalysts: A Spectroscopic and Computational Study. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9892-9905	3.4	96
376	Probing Reactive Platinum Sites in UiO-67 Zirconium Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2015 , 27, 1042-1056	9.6	95
375	Low-dimensional systems investigated by x-ray absorption spectroscopy: a selection of 2D, 1D and 0D cases. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 423001	3	94
374	Quantum-size effects in the titanosilicate molecular sieve. <i>Applied Physics Letters</i> , 1997 , 71, 2319-2321	3.4	93
373	FTIR study of the interaction of CO with pure and silica-supported copper(I) oxide. <i>Surface Science</i> , 1998 , 411, 272-285	1.8	93
372	(I(2))(n) encapsulation inside TiO(2): a way to tune photoactivity in the visible region. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2822-8	16.4	93
371	Hydrogen storage in Chabazite zeolite frameworks. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3197-2036	3.6	93
370	A thermally stable Pt/Y-based metal-organic framework: Exploring the accessibility of the metal centers with spectroscopic methods using H ₂ O, CH ₃ OH, and CH ₃ CN as probes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21509-20	3.4	93
369	In situ, Cr K-edge XAS study on the Phillips catalyst: activation and ethylene polymerization. <i>Journal of Catalysis</i> , 2005 , 230, 98-108	7.3	93
368	Lateral interactions in CO adlayers on prismatic ZnO faces: a FTIR and HRTEM study. <i>Surface Science</i> , 1992 , 276, 281-298	1.8	93
367	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
366	FTIR adsorption studies of H ₂ O and CH ₃ OH in the isostructural H-SSZ-13 and H-SAPO-34: formation of H-bonded adducts and protonated clusters. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7724-32	3.4	91
365	The use of synchrotron radiation techniques in the characterization of strained semiconductor heterostructures and thin films. <i>Surface Science Reports</i> , 2004 , 53, 1-197	12.9	91
364	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

363	Resonance Raman effects in TS-1: the structure of Ti(IV) species and reactivity towards H ₂ O, NH ₃ and H ₂ O ₂ : an in situ study. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 4390	3.6	90
362	Electron-hole reduced effective mass in monoatomic TiO ₂ quantum wires embedded in the siliceous crystalline matrix of ETS-10. <i>Microporous and Mesoporous Materials</i> , 1999 , 30, 155-163	5.3	89
361	XAFS study of Ti-silicalite: structure of framework Ti(IV) in presence and in absence of reactive molecules (H ₂ O, NH ₃). <i>Catalysis Letters</i> , 1994 , 26, 195-208	2.8	88
360	Lattice dynamics to trigger low temperature oxygen mobility in solid oxide ion conductors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16080-5	16.4	87
359	Alumina-Supported Copper Chloride. <i>Journal of Catalysis</i> , 2000 , 189, 91-104	7.3	87
358	Stretching frequencies of cation-CO adducts in alkali-metal exchanged zeolites: An elementary electrostatic approach. <i>Journal of Chemical Physics</i> , 1995 , 103, 3158-3165	3.9	87
357	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
356	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
355	Selective Catalytic Olefin Epoxidation with MnII-Exchanged MOF-5. <i>ACS Catalysis</i> , 2018 , 8, 596-601	13.1	86
354	Heterogeneous Nonclassical Carbonyls Stabilized in Cu(I) and Ag(I) ZSM-5 Zeolites: Thermodynamic and Spectroscopic Features. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9970-9983	3.4	84
353	Reversible Capture and Release of Cl and Br with a Redox-Active Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5992-5997	16.4	82
352	XANES, EXAFS and FTIR characterization of copper-exchanged mordenite. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 1519-1525		82
351	Oxide/metal interface distance and epitaxial strain in the NiO/Ag(001) system. <i>Physical Review Letters</i> , 2003 , 91, 046101	7.4	82
350	In situ formation of hydrides and carbides in palladium catalyst: When XANES is better than EXAFS and XRD. <i>Catalysis Today</i> , 2017 , 283, 119-126	5.3	81
349	Determination of the electronic and structural configuration of coordination compounds by synchrotron-radiation techniques. <i>Coordination Chemistry Reviews</i> , 2014 , 277-278, 130-186	23.2	81
348	Vibrational and Thermodynamic Properties of H ₂ Adsorbed on MgO in the 300-20 K Interval. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16174-16186	3.4	81
347	Response of CPO-27-Ni towards CO, N ₂ and C ₂ H ₄ . <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9811-23.6	7.9	79
346	High Zn/Al ratios enhance dehydrogenation vs hydrogen transfer reactions of Zn-ZSM-5 catalytic systems in methanol conversion to aromatics. <i>Journal of Catalysis</i> , 2018 , 362, 146-163	7.3	78

345	Propene oligomerization on H-mordenite: Hydrogen-bonding interaction, chain initiation, propagation and hydrogen transfer studied by temperature-programmed FTIR and UV-Vis spectroscopies. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 1243-1249		77
344	In situ FTIR spectroscopy of key intermediates in the first stages of ethylene polymerization on the Cr/SiO ₂ Phillips catalyst: Solving the puzzle of the initiation mechanism?. <i>Journal of Catalysis</i> , 2006 , 240, 172-181	7.3	76
343	Characterization of a New Porous Pt-Containing Metal-Organic Framework Containing Potentially Catalytically Active Sites: Local Electronic Structure at the Metal Centers. <i>Chemistry of Materials</i> , 2007 , 19, 211-220	9.6	76
342	Interaction of N ₂ , CO and NO with Cu-exchanged ETS-10: a compared FTIR study with other Cu-zeolites and with dispersed Cu ₂ O. <i>Catalysis Today</i> , 2001 , 70, 91-105	5.3	76
341	CuI-Y and CuII-Y zeolites: a XANES, EXAFS and visible-NIR study. <i>Chemical Physics Letters</i> , 1997 , 269, 500-508		75
340	Tailoring the Selectivity of Ti-Based Photocatalysts (TiO ₂ and Microporous ETS-10 and ETS-4) by Playing with Surface Morphology and Electronic Structure. <i>Chemistry of Materials</i> , 2006 , 18, 3412-3424	9.6	74
339	X-ray absorption study at the Mg and O K edges of ultrathin MgO epilayers on Ag(001). <i>Physical Review B</i> , 2004 , 69,	3.3	74
338	Template burning inside TS-1 and Fe-MFI molecular sieves: an in situ XRPD study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14549-58	16.4	74
337	Temperature- and Pressure-Dependent Hydrogen Concentration in Supported Pd _{Hx} Nanoparticles by Pd K-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10416-10423	3.8	73
336	Alumina-Supported Copper Chloride. <i>Journal of Catalysis</i> , 2001 , 202, 279-295	7.3	73
335	Model oxide supported MoS ₂ HDS catalysts: structure and surface properties. <i>Catalysis Science and Technology</i> , 2011 , 1, 123	5.5	72
334	Structural, Electronic, and Vibrational Properties of the TiO ₂ /Ti Quantum Wires in the Titanosilicate ETS-10. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 1328-1336	3.4	72
333	Fundamental Aspects of H ₂ S Adsorption on CPO-27-Ni. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15615-15622	5.1	71
332	Unravelling the Redox-catalytic Behavior of Ce Metal-Organic Frameworks by X-ray Absorption Spectroscopy. <i>ChemPhysChem</i> , 2018 , 19, 373-378	3.2	69
331	Heterogeneity of Framework Ti(IV) in TiBilicalite as Revealed by the Adsorption of NH ₃ . Combined Calorimetric and Spectroscopic Study. <i>Langmuir</i> , 1999 , 15, 5753-5764	4	69
330	H ₂ S interaction with HKUST-1 and ZIF-8 MOFs: A multitechnique study. <i>Microporous and Mesoporous Materials</i> , 2015 , 207, 90-94	5.3	68
329	Determining the aluminium occupancy on the active T-sites in zeolites using X-ray standing waves. <i>Nature Materials</i> , 2008 , 7, 551-5	27	68
328	Time Resolved in Situ XAFS Study of the Electrochemical Oxygen Intercalation in SrFeO _{2.5} Brownmillerite Structure: Comparison with the Homologous SrCoO _{2.5} System. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1311-1322	3.8	67

327	Ligand-selective photodissociation from [Ru(bpy)(4AP) ₂] ²⁺ : a spectroscopic and computational study. <i>Inorganic Chemistry</i> , 2009 , 48, 1469-81	5.1	67
326	Reactivity of Ti(IV) sites in Ti-zeolites: An embedded cluster approach. <i>Journal of Chemical Physics</i> , 2002 , 117, 226-237	3.9	67
325	Gradual release of strongly bound nitric oxide from Fe(NO)(bdc). <i>Journal of the American Chemical Society</i> , 2015 , 137, 3466-9	16.4	65
324	Structure-activity relationships of simple molecules adsorbed on CPO-27-Ni metal-organic framework: In situ experiments vs. theory. <i>Catalysis Today</i> , 2012 , 182, 67-79	5.3	65
323	Synthesis of M-UiO-66 (M = Zr, Ce or Hf) employing 2,5-pyridinedicarboxylic acid as a linker: defect chemistry, framework hydrophilisation and sorption properties. <i>Dalton Transactions</i> , 2018 , 47, 1062-1070	4.3	65
322	A comprehensive approach to investigate the structural and surface properties of activated carbons and related Pd-based catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 4910-4922	5.5	64
321	Synthesis of ZnO-carbon composites and imprinted carbon by the pyrolysis of ZnCl ₂ -catalyzed furfuryl alcohol polymers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 196, 143-153	4.7	63
320	The role of Al in the structure and reactivity of iron centers in Fe-ZSM-5-based catalysts: a statistically based infrared study. <i>Journal of Catalysis</i> , 2003 , 215, 264-270	7.3	63
319	Redox-Driven Migration of Copper Ions in the Cu-CHA Zeolite as Shown by the In Situ PXRD/XANES Technique. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10367-10372	16.4	62
318	Influence of additives in defining the active phase of the ethylene oxychlorination catalyst. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5605-18	3.6	62
317	Surface structures of oxides and halides and their relationships to catalytic properties. <i>Advances in Catalysis</i> , 2001 , 265-397	2.4	61
316	Materials characterization by synchrotron x-ray microprobes and nanoprobe. <i>Reviews of Modern Physics</i> , 2018 , 90,	40.5	61
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