

Carlo Lamberti

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.

452
papers

31,191
citations

90
h-index

161
g-index

472
ext. papers

33,953
ext. citations

6.5
avg, IF

6.93
L-index

#	Paper	IF	Citations
452	Highly selective Ru/HBEA catalyst for the direct amination of fatty alcohols with ammonia. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119942	21.8	5
451	Cu- and Fe-speciation in a composite zeolite catalyst for selective catalytic reduction of NOx: insights from operando XAS. <i>Catalysis Science and Technology</i> , 2021 , 11, 846-860	5.5	4
450	Diversity and interdisciplinarity in nanoscience and nanotechnology: a time-related analysis of the subject category. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	1
449	Watching nanomaterials with X-ray eyes: Probing different length scales by combining scattering with spectroscopy. <i>Progress in Materials Science</i> , 2020 , 112, 100667	42.2	8
448	PyFitit: The software for quantitative analysis of XANES spectra using machine-learning algorithms. <i>Computer Physics Communications</i> , 2020 , 250, 107064	4.2	32
447	Laboratory operando Fe and Mn K-edges XANES and Mössbauer studies of the LiFe _{0.5} Mn _{0.5} PO ₄ cathode material. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108065	2.5	7
446	X-ray and optical characterization of the intermediate products in the Au ³⁺ reduction process by oleylamine. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108067	2.5	3
445	MLFT approach with p-d hybridization for ab initio simulations of the pre-edge XANES. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108105	2.5	2
444	Time-dependent carbide phase formation in palladium nanoparticles. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108079	2.5	9
443	XAFS investigation of Co/Zn based ZIFs after I ₂ , Cl ₂ and Br ₂ adsorption. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108152	2.5	6
442	Formation and growth of Pd nanoparticles in UiO-67 MOF by in situ EXAFS. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108144	2.5	8
441	DFT-assisted XANES simulations to discriminate different monomeric CuII species in CHA catalysts. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108510	2.5	1
440	Machine learning approaches to XANES spectra for quantitative 3D structural determination: The case of CO ₂ adsorption on CPO-27-Ni MOF. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108430	2.5	12
439	Operando X-ray absorption spectra and mass spectrometry data during hydrogenation of ethylene over palladium nanoparticles. <i>Data in Brief</i> , 2019 , 24, 103954	1.2	6
438	Dynamics of Reactive Species and Reactant-Induced Reconstruction of Pt Clusters in Pt/Al ₂ O ₃ Catalysts. <i>ACS Catalysis</i> , 2019 , 9, 7124-7136	13.1	15
437	? Divergent coordination behavior of early-transition metals towards MOF-5. <i>Chemical Science</i> , 2019 , 10, 5906-5910	9.4	11
436	Cu-Exchanged Ferrierite Zeolite for the Direct CH ₄ to CH ₃ OH Conversion: Insights on Cu Speciation from X-Ray Absorption Spectroscopy. <i>Topics in Catalysis</i> , 2019 , 62, 712-723	2.3	5

435	Evolution of Pt and Pd species in functionalized UiO-67 metal-organic frameworks. <i>Catalysis Today</i> , 2019 , 336, 33-39	5.3	13
434	Temperature-dependent dynamics of NH ₃ -derived Cu species in the Cu-CHA SCR catalyst. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1067-1080	4.9	33
433	The role of palladium carbides in the catalytic hydrogenation of ethylene over supported palladium nanoparticles. <i>Catalysis Today</i> , 2019 , 336, 40-44	5.3	20
432	X-ray absorption spectroscopy data during formation of active Pt- and Pd-sites in functionalized UiO-67 metal-organic frameworks. <i>Data in Brief</i> , 2019 , 25, 104280	1.2	3
431	Ti-Based Catalysts and Photocatalysts: Characterization and Modeling. <i>Chemical Record</i> , 2019 , 19, 1319-1336	3.6	4
430	Quantitative structural determination of active sites from in situ and operando XANES spectra: From standard ab initio simulations to chemometric and machine learning approaches. <i>Catalysis Today</i> , 2019 , 336, 3-21	5.3	44
429	Understanding and Optimizing the Performance of Cu-FER for The Direct CH ₄ to CH ₃ OH Conversion. <i>ChemCatChem</i> , 2019 , 11, 621-627	5.2	13
428	Partial and Complete Substitution of the 1,4-Benzenedicarboxylate Linker in UiO-66 with 1,4-Naphthalenedicarboxylate: Synthesis, Characterization, and H-Adsorption Properties. <i>Inorganic Chemistry</i> , 2019 , 58, 1607-1620	5.1	27
427	Water as a structure-driving agent between the UiO-66 and MIL-140A metal-organic frameworks. <i>Chemical Communications</i> , 2019 , 55, 901-904	5.8	22
426	The impact of reaction conditions and material composition on the stepwise methane to methanol conversion over Cu-MOR: An operando XAS study. <i>Catalysis Today</i> , 2019 , 336, 99-108	5.3	19
425	Disclosing the Properties of a New Ce(III)-Based MOF: Ce ₂ (NDC) ₃ (DMF) ₂ . <i>Crystal Growth and Design</i> , 2019 , 19, 787-796	3.5	18
424	Palladium Carbide and Hydride Formation in the Bulk and at the Surface of Palladium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12029-12037	3.8	45
423	Effect of Ti Speciation on Catalytic Performance of TS-1 in the Hydrogen Peroxide to Propylene Oxide Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9021-9034	3.8	48
422	Time-resolved operando studies of carbon supported Pd nanoparticles under hydrogenation reactions by X-ray diffraction and absorption. <i>Faraday Discussions</i> , 2018 , 208, 187-205	3.6	42
421	Operando study of palladium nanoparticles inside UiO-67 MOF for catalytic hydrogenation of hydrocarbons. <i>Faraday Discussions</i> , 2018 , 208, 287-306	3.6	37
420	A Systematic Study of Isomorphically Substituted H-MALPO-5 Materials for the Methanol-to-Hydrocarbons Reaction. <i>ChemPhysChem</i> , 2018 , 19, 484-495	3.2	11
419	Computational Assessment of Relative Sites Stabilities and Site-Specific Adsorptive Properties of Titanium Silicalite-1. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1612-1621	3.8	15
418	Looking for the active hydrogen species in a 5wt% Pt/C catalyst: a challenge for inelastic neutron scattering. <i>Faraday Discussions</i> , 2018 , 208, 227-242	3.6	12

4 ¹⁷	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
4 ¹⁶	Insight from X-ray Absorption Spectroscopy to Octahedral/Tetrahedral Site Distribution in Sm-Doped Iron Oxide Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8543-8552	3.8	14
4 ¹⁵	Investigation of the nanoscale two-component ZnS-ZnO heterostructures by means of HR-TEM and X-ray based analysis. <i>Journal of Solid State Chemistry</i> , 2018 , 262, 264-272	3.3	3
4 ¹⁴	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
4 ¹³	Cu-CHA - a model system for applied selective redox catalysis. <i>Chemical Society Reviews</i> , 2018 , 47, 8097-8133	8.33	138
4 ¹²	Characterization of local atomic structure in Co/Zn based ZIFs by XAFS. <i>Journal of Physics: Conference Series</i> , 2018 , 987, 012031	0.3	2
4 ¹¹	Zn/Co ZIF family: MW synthesis, characterization and stability upon halogen sorption. <i>Polyhedron</i> , 2018 , 154, 457-464	2.7	30
4 ¹⁰	Theory as a driving force to understand reactions on nanoparticles: general discussion. <i>Faraday Discussions</i> , 2018 , 208, 147-185	3.6	1
4 ⁰⁹	The insights from X-ray absorption spectroscopy into the local atomic structure and chemical bonding of Metal-Organic frameworks. <i>Polyhedron</i> , 2018 , 155, 232-253	2.7	23
4 ⁰⁸	Control of catalytic nanoparticle synthesis: general discussion. <i>Faraday Discussions</i> , 2018 , 208, 471-495	3.6	2
4 ⁰⁷	The challenges of characterising nanoparticulate catalysts: general discussion. <i>Faraday Discussions</i> , 2018 , 208, 339-394	3.6	4
4 ⁰⁶	Dynamic Behavior of Pd/P4VP Catalyst during the Aerobic Oxidation of 2-Propanol: A Simultaneous SAXS/XAS/MS Operando Study. <i>ACS Catalysis</i> , 2018 , 8, 6870-6881	13.1	11
4 ⁰⁵	Monte Carlo analysis of the oxygen knock-on effects induced by synchrotron x-ray radiation in the Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ superconductor. <i>Physical Review Materials</i> , 2018 , 2,	3.2	9
4 ⁰⁴	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, 1062-1074	4.3	65
4 ⁰³	Selective Catalytic Olefin Epoxidation with MnII-Exchanged MOF-5. <i>ACS Catalysis</i> , 2018 , 8, 596-601	13.1	86
4 ⁰²	Experimental and theoretical study of hydrogen desorption process from Mn(BH ₄) ₂ . <i>Journal of Alloys and Compounds</i> , 2018 , 735, 277-284	5.7	6
4 ⁰¹	Exact Stoichiometry of Ce Zr Cornerstones in Mixed-Metal UiO-66 Metal-Organic Frameworks Revealed by Extended X-ray Absorption Fine Structure Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17379-17383	16.4	44
4 ⁰⁰	Autoluminescent Metal-Organic Frameworks (MOFs): Self-Photoemission of a Highly Stable Thorium MOF. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14144-14149	16.4	33

399	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
398	Molecular Niobium Precursors in Various Oxidation States: An XAS Case Study. <i>Inorganic Chemistry</i> , 2018 , 57, 13998-14004	5.1	6
397	A room-temperature growth of gold nanoparticles on MOF-199 and its transformation into the [Cu ₂ (OH)(BTC)(H ₂ O)] phase. <i>Polyhedron</i> , 2018 , 154, 357-363	2.7	7
396	Materials characterization by synchrotron x-ray microprobes and nanoprobes. <i>Reviews of Modern Physics</i> , 2018 , 90,	40.5	61
395	Exploring structure and reactivity of Cu sites in functionalized UiO-67 MOFs. <i>Catalysis Today</i> , 2017 , 283, 89-103	5.3	42
394	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
393	Tuning Pt and Cu sites population inside functionalized UiO-67 MOF by controlling activation conditions. <i>Faraday Discussions</i> , 2017 , 201, 265-286	3.6	27
392	CoreShell Structure of Palladium Hydride Nanoparticles Revealed by Combined X-ray Absorption Spectroscopy and X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18202-18213	3.8	57
391	Spectroscopic Methods in Catalysis and Their Application in Well-Defined Nanocatalysts. <i>Studies in Surface Science and Catalysis</i> , 2017 , 221-284	1.8	2
390	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
389	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
388	StructureReactivity relationship in Co ₃ O ₄ promoted Au/CeO ₂ catalysts for the CH ₃ OH oxidation reaction revealed by in situ FTIR and operando EXAFS studies. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2083-2094	13	17
387	Effect of Molecular Guest Binding on the d-d Transitions of Ni of CPO-27-Ni: A Combined UV-Vis, Resonant-Valence-to-Core X-ray Emission Spectroscopy, and Theoretical Study. <i>Inorganic Chemistry</i> , 2017 , 56, 14408-14425	5.1	15
386	Methane to Methanol: Structure-Activity Relationships for Cu-CHA. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14961-14975	16.4	202
385	MOFs modeling and theory: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 233-245	3.6	3
384	Ligands Make the Difference! Molecular Insights into Cr/SiO Phillips Catalyst during Ethylene Polymerization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17064-17073	16.4	37
383	The effect of surface chemistry on the performances of Pd-based catalysts supported on activated carbons. <i>Catalysis Science and Technology</i> , 2017 , 7, 4162-4172	5.5	13
382	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 87-99	3.6	5

381	New directions in gas sorption and separation with MOFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 175-194	3.6	6
380	Catalysis in MOFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 369-394	3.6	12
379	The duality of UiO-67-Pt MOFs: connecting treatment conditions and encapsulated Pt species by operando XAS. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27489-27507	3.6	25
378	Maskless X-Ray Writing of Electrical Devices on a Superconducting Oxide with Nanometer Resolution and Online Process Monitoring. <i>Scientific Reports</i> , 2017 , 7, 9066	4.9	10
377	CO ₂ Hydrogenation over Pt-Containing UiO-67 Zr-MOFs: The Base Case. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13206-13218	3.9	52
376	Redox-Driven Migration of Copper Ions in the Cu-CHA Zeolite as Shown by the In Situ PXRD/XANES Technique. <i>Angewandte Chemie</i> , 2017 , 129, 10503-10508	3.6	19
375	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
374	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
373	Modulator Effect in UiO-66-NDC (1,4-Naphthalenedicarboxylic Acid) Synthesis and Comparison with UiO-67-NDC Isorecticular Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2017 , 17, 5422-5431	3.5	42
372	State-of-the-Art X-Ray Spectroscopy in Catalysis 2017 , 1029-1054		4
371	Probing Structure and Reactivity of Metal Centers in Metal-Organic Frameworks by XAS Techniques 2017 , 397-430		4
370	XAS Techniques to Determine Catalytically Active Sites in Zeolites: The Case of Cu-Zeolites 2017 , 299-316		2
369	Oxygen doping tuning in superconducting oxides by thermal annealing and hard X-ray irradiation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017 , 220, 69-75	1.7	7
368	Formation and growth of palladium nanoparticles inside porous poly(4-vinyl-pyridine) monitored by operando techniques: The role of different reducing agents. <i>Catalysis Today</i> , 2017 , 283, 144-150	5.3	6
367	Hydrothermal synthesis of high surface area ZIF-8 with minimal use of TEA. <i>Solid State Sciences</i> , 2017 , 69, 13-21	3.4	40
366	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
365	Surface Metal Complexes and Their Applications 2016 , 773-808		1
364	Planetary, Geological and Environmental Sciences 2016 , 561-608		2

363	Real-Space Multiple-Scattering Theory of X-Ray Spectra 2016 , 51-72		6
362	X-Ray Transient Absorption Spectroscopy 2016 , 213-249		4
361	Introduction: Historical Perspective on XAS 2016 , 1-21		1
360	X-Ray Absorption and Emission Spectroscopy for Catalysis 2016 , 351-383		17
359	X-Ray Absorption and RIXS on Coordination Complexes 2016 , 407-435		6
358	From Synchrotrons to FELs: How Photons are Produced; Beamline Optics and Beam Characteristics 2016 , 23-50		
357	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
356	Investigation of oxygen vacancies in CeO ₂ /Pt system with synchrotron light techniques. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012064	0.3	1
355	Hydride phase formation in carbon supported palladium hydride nanoparticles by in situ EXAFS and XRD. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012032	0.3	21
354	Direct-Write X-ray Nanopatterning: A Proof of Concept Josephson Device on Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ Superconducting Oxide. <i>Nano Letters</i> , 2016 , 16, 1669-74	11.5	13
353	Finite difference method accelerated with sparse solvers for structural analysis of the metal-organic complexes. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012004	0.3	19
352	IR and Raman Spectroscopies Probing MOFs Structure, Defectivity, and Reactivity 2016 , 657-690		4
351	Solvent-Driven Gate Opening in MOF-76-Ce: Effect on CO ₂ Adsorption. <i>ChemSusChem</i> , 2016 , 9, 713-9	8.3	42
350	XAS on Rh and Ir metal sites in post synthetically functionalized UiO-67 Zirconium MOFs. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012053	0.3	2
349	A XAFS study of the local environment and reactivity of Pt- sites in functionalized UiO-67 MOFs. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012125	0.3	6
348	Graphitization of Activated Carbons: A Molecular-level Investigation by INS, DRIFT, XRD and Raman Techniques. <i>Physics Procedia</i> , 2016 , 85, 20-26		36
347	Active sites in Cu-SSZ-13 deNO _x catalyst under reaction conditions: a XAS/XES perspective. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012041	0.3	11
346	Pd nanoparticles formation inside porous polymeric scaffolds followed by in situ XANES/SAXS. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012039	0.3	1

345	Metal-organic frameworks: structure, properties, methods of synthesis and characterization. <i>Russian Chemical Reviews</i> , 2016 , 85, 280-307	6.8	198
344	Nitrate/nitrite equilibrium in the reaction of NO with a Cu-CHA catalyst for NH ₃ -SCR. <i>Catalysis Science and Technology</i> , 2016 , 6, 8314-8324	5.5	39
343	The role of dispersive forces determining the energetics of adsorption in Ti zeolites. <i>Journal of Computational Chemistry</i> , 2016 , 37, 2659-2666	3.5	7
342	Theory of X-Ray Absorption Near Edge Structure 2016 , 73-97		14
341	Space-Resolved XAFS, Instrumentation and Applications 2016 , 251-279		3
340	Quantitative EXAFS Analysis 2016 , 281-302		10
339	XAS Spectroscopy: Related Techniques and Combination with Other Spectroscopic and Scattering Methods 2016 , 303-350		6
338	High Pressure XAS, XMCD and IXS 2016 , 385-405		4
337	XAS Studies on Mixed Valence Oxides 2016 , 459-484		
336	Novel XAS Techniques for Probing Fuel Cells and Batteries 2016 , 485-522		4
335	X-Ray Spectroscopy in Studies of the Nuclear Fuel Cycle 2016 , 523-559		2
334	X-Ray Absorption Spectroscopy and Cultural Heritage: Highlights and Perspectives 2016 , 609-636		5
333	X-Ray Spectroscopy at Free Electron Lasers 2016 , 637-669		6
332	X-Ray Magnetic Circular Dichroism 2016 , 671-694		6
331	Industrial Applications 2016 , 695-743		
330	XAS in Liquid Systems 2016 , 745-771		5
329	Nanostructured Materials 2016 , 809-827		1
328	How to Start an XAS Experiment 2016 , 99-124		3

327	Hard X-Ray Photon-in/Photon-out Spectroscopy: Instrumentation, Theory and Applications 2016 , 125-153	7
326	QEXAFS: Techniques and Scientific Applications for Time-Resolved XAS 2016 , 155-183	10
325	Time-Resolved XAS Using an Energy Dispersive Spectrometer: Techniques and Applications 2016 , 185-212	5
324	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
323	XAS and XES Techniques Shed Light on the Dark Side of Ziegler-Natta Catalysts: Active-Site Generation. <i>ChemCatChem</i> , 2015 , 7, 1432-1437	5.2 23
322	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
321	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
320	Probing zeolites by vibrational spectroscopies. <i>Chemical Society Reviews</i> , 2015 , 44, 7262-341	58.5 241
319	Activation and In Situ Ethylene Polymerization on Silica-Supported Ziegler-Natta Catalysts. <i>ACS Catalysis</i> , 2015 , 5, 5586-5595	13.1 24
318	The Pyridyl Functional Groups Guide the Formation of Pd Nanoparticles Inside A Porous Poly(4-Vinyl-Pyridine). <i>ChemCatChem</i> , 2015 , 7, 2188-2195	5.2 15
317	Progress in the Characterization of the Surface Species in Activated Carbons by means of INS Spectroscopy Coupled with Detailed DFT Calculations. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-8	1 18
316	Anisotropy in the Raman scattering of a CaFeO _{2.5} single crystal and its link with oxygen ordering in Brownmillerite frameworks. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 225403	1.8 16
315	MoS ₂ supported on P25 titania: A model system for the activation of a HDS catalyst. <i>Journal of Catalysis</i> , 2015 , 328, 225-235	7.3 32
314	Probing Reactive Platinum Sites in UiO-67 Zirconium Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2015 , 27, 1042-1056	9.6 95
313	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
312	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
311	Catalyst Characterization by XAS and XES Spectroscopies: In Situ and Operando Experiments 2015 , 717-736	3
310	Effect of Different Face Centered Cubic Nanoparticle Distributions on Particle Size and Surface Area Determination: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4085-4094	3.8 38

309	Temperature- and Pressure-Dependent Hydrogen Concentration in Supported PdHx Nanoparticles by Pd K-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10416-10423	3.8	73
308	Band-gap states in unfilled mesoporous nc-TiO ₂ : measurement protocol for electrical characterization. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 015102	3	17
307	Effect of Pre-Reduction on the Properties and the Catalytic Activity of Pd/Carbon Catalysts: A Comparison with Pd/Al ₂ O ₃ . <i>ACS Catalysis</i> , 2014 , 4, 187-194	13.1	56
306	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
305	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
304	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
303	Architecture of the Ti(IV) Sites in TiAlPO-5 Determined Using Ti K-Edge X-ray Absorption and X-ray Emission Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11745-11751	3.8	13
302	Formation and Growth of Pd Nanoparticles Inside a Highly Cross-Linked Polystyrene Support: Role of the Reducing Agent. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8406-8415	3.8	37
301	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
300	Doping change in the Bi-2212 superconductor directly induced by a hard X-ray nanobeam. <i>Nano Letters</i> , 2014 , 14, 1583-9	11.5	18
299	Structure of aluminum, iron, and other heteroatoms in zeolites by X-ray absorption spectroscopy. <i>Coordination Chemistry Reviews</i> , 2014 , 277-278, 275-290	23.2	57
298	Iron oxidation state variations in zoned micro-crystals measured using micro-XANES. <i>Catalysis Today</i> , 2014 , 229, 72-79	5.3	15
297	Position and flux stabilization of X-ray beams produced by double-crystal monochromators for EXAFS scans at the titanium K-edge. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 401-8	2.4	8
296	A modified cryostat for photo-electrical characterization of porous materials in controlled atmosphere at very low gas dosage. <i>AIP Advances</i> , 2014 , 4, 087134	1.5	4
295	Monitoring excited state dynamics in cis-[Ru(bpy) ₂ (py) ₂] ²⁺ by ultrafast synchrotron techniques. <i>Catalysis Today</i> , 2014 , 229, 34-45	5.3	14
294	Tuning the Activity and Selectivity of CuCl ₂ /Al ₂ O ₃ Ethene Oxochlorination Catalyst by Selective Promotion. <i>Topics in Catalysis</i> , 2014 , 57, 741-756	2.3	23
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4	Growth of high purity InGaAs LPE layers and their characterization. <i>Journal of Crystal Growth</i> , 1990 , 102, 477-480	1.6	4

3	CHAPTER 5:Characterization of MOFs. 2. Long and Local Range Order Structural Determination of MOFs by Combining EXAFS and Diffraction Techniques. <i>RSC Catalysis Series</i> ,143-208	0.3	8
2	CHAPTER 4:Characterization of MOFs. 1. Combined Vibrational and Electronic Spectroscopies. <i>RSC Catalysis Series</i> ,76-142	0.3	18
1	Single Site Catalyst for Partial Oxidation Reaction: TS-1 Case Study37-68		26