

Anatoly Frenkel

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.

381 papers	20,159 citations	73 h-index	129 g-index
409 ext. papers	22,577 ext. citations	7.9 avg, IF	6.9 L-index

#	Paper	IF	Citations
381	Dynamical Change of Valence States and Structure in NiCu ₃ Nanoparticles during Redox Cycling. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1991-2002	3.8	4
380	In Situ XAFS, XRD, and DFT Characterization of the Sulfur Adsorption Sites on Cu and Ce Exchanged Y Zeolites. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1496-1512	3.8	1
379	Decoding reactive structures in dilute alloy catalysts.. <i>Nature Communications</i> , 2022 , 13, 832	17.4	9
378	Modulating the dynamics of Brønsted acid sites on PtWO _x inverse catalyst. <i>Nature Catalysis</i> , 2022 , 5, 144-153	36.5	5
377	Molecular Design of Supported MoO _x Catalysts with Surface TaO _x Promotion for Olefin Metathesis. <i>ACS Catalysis</i> , 2022 , 12, 3226-3237	13.1	1
376	Choosing the metal oxide for an electro-chemo-mechanical actuator working body. <i>Solid State Ionics</i> , 2022 , 379, 115913	3.3	
375	Structural and Valence State Modification of Cobalt in CoPt Nanocatalysts in Redox Conditions. <i>ACS Nano</i> , 2021 ,	16.7	7
374	Single-nanometer iron oxide nanoparticles as tissue-permeable MRI contrast agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
373	Aliovalent Doping of CeO Improves the Stability of Atomically Dispersed Pt. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	6
372	Radiation-Assisted Formation of Metal Nanoparticles in Molten Salts. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 157-164	6.4	6
371	A solvent-free solid catalyst for the selective and color-indicating ambient-air removal of sulfur mustard. <i>Communications Chemistry</i> , 2021 , 4,	6.3	6
370	Deciphering the Local Environment of Single-Atom Catalysts with X-ray Absorption Spectroscopy. <i>Accounts of Chemical Research</i> , 2021 , 54, 2660-2669	24.3	4
369	CO ₂ Methanation on Cu-Cluster Decorated Zirconia Supports with Different Morphology: A Combined Experimental In Situ GIXANES/GISAXS, Ex Situ XPS and Theoretical DFT Study. <i>ACS Catalysis</i> , 2021 , 11, 6210-6224	13.1	8
368	Single Atom Catalysts: A Review of Characterization Methods. <i>Chemistry Methods</i> , 2021 , 1, 278-294		13
367	Effect of Carbon Doping on CO ₂ -Reduction Activity of Single Cobalt Sites in Graphitic Carbon Nitride. <i>ChemNanoMat</i> , 2021 , 7, 1051-1056	3.5	6
366	Formation of three-dimensional bicontinuous structures via molten salt dealloying studied in real-time by in situ synchrotron X-ray nano-tomography. <i>Nature Communications</i> , 2021 , 12, 3441	17.4	6
365	Polyniobate Nanothreads for Decomposition of the Nerve Agent Simulant Dimethyl Chlorophosphate. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5649-5654	5.6	0

364	Nanoparticle Formation Kinetics, Mechanisms, and Accurate Rate Constants: Examination of a Second-Generation Ir(0) _n Particle Formation System by Five Monitoring Methods Plus Initial Mechanism-Enabled Population Balance Modeling. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13449-13476	3.8	4
363	Using in situ electron energy-loss spectroscopy (EELS) and X-ray fluorescence microscopy (XFM) to characterize Co-Pt nanoparticles. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2108-2109	0.5	
362	Probing Active Sites in CuPd Cluster Catalysts by Machine-Learning-Assisted X-ray Absorption Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53363-53374	9.5	9
361	InAs Nanocrystals with Robust p-Type Doping. <i>Advanced Functional Materials</i> , 2021 , 31, 2007456	15.6	4
360	All-Solid-State Electro-Chemo-Mechanical Actuator Operating at Room Temperature. <i>Advanced Functional Materials</i> , 2021 , 31, 2006712	15.6	4
359	Rhombohedral Ordered Intermetallic Nanocatalyst Boosts the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021 , 11, 184-192	13.1	19
358	Reconciling structure prediction of alloyed, ultrathin nanowires with spectroscopy. <i>Chemical Science</i> , 2021 , 12, 7158-7173	9.4	1
357	Dynamic structure of active sites in ceria-supported Pt catalysts for the water gas shift reaction. <i>Nature Communications</i> , 2021 , 12, 914	17.4	31
356	Tuning the Number of Active Sites and Turnover Frequencies by Surface Modification of Supported ReO ₄ /(SiO ₂ /Al ₂ O ₃) Catalysts for Olefin Metathesis. <i>ACS Catalysis</i> , 2021 , 11, 2412-2421	13.1	4
355	Latent Representation Learning for Structural Characterization of Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2086-2094	6.4	6
354	Electrochemical Cleaning Stability and Oxygen Reduction Reaction Activity of 1-2 nm Dendrimer-Encapsulated Au Nanoparticles. <i>ChemElectroChem</i> , 2021 , 8, 2545-2555	4.3	0
353	Exploiting Microreactors for Correlative Studies of Working Catalysts With Electrons And X-Rays. <i>Microscopy and Microanalysis</i> , 2021 , 27, 148-149	0.5	
352	Comparative analysis of XANES and EXAFS for local structural characterization of disordered metal oxides. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 1511-1517	2.4	3
351	A Holistic Approach for Elucidating Local Structure, Dynamics, and Speciation in Molten Salts with High Structural Disorder. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15298-15308	16.4	3
350	Atomically Resolved Characterization of Optically Driven Ligand Reconfiguration on Nanoparticle Catalyst Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44302-44311	9.5	0
349	Atomic resolution tracking of nerve-agent simulant decomposition and host metal-organic framework response in real space. <i>Communications Chemistry</i> , 2021 , 4,	6.3	4
348	Multimodal Spectroscopic Study of Surface Termination Evolution in Cr ₂ TiC ₂ T _x MXene. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001789	4.6	7
347	Rationalization of promoted reverse water gas shift reaction by PtNi alloy: Essential contribution from ensemble effect. <i>Journal of Chemical Physics</i> , 2021 , 154, 014702	3.9	2

346	Remote controlled optical manipulation of bimetallic nanoparticle catalysts using peptides. <i>Catalysis Science and Technology</i> , 2021 , 11, 2386-2395	5.5	3
345	Dynamic restructuring of supported metal nanoparticles and its implications for structure insensitive catalysis. <i>Nature Communications</i> , 2021 , 12, 7096	17.4	5
344	Noncontact optical displacement measurements by dynamic contrast auto focusing for slow oscillatory motion. <i>Optical Engineering</i> , 2021 , 60,	1.1	1
343	Neural network assisted analysis of bimetallic nanocatalysts using X-ray absorption near edge structure spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18902-18910	3.6	16
342	Photo-thermo Catalytic Oxidation over a TiO ₂ -WO ₃ -Supported Platinum Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12909-12916	16.4	29
341	Connections between the Speciation and Solubility of Ni(II) and Co(II) in Molten ZnCl ₂ . <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1253-1258	3.4	13
340	Methanol to aromatics: isolated zinc phosphate groups on HZSM-5 zeolite enhance BTX selectivity and catalytic stability.. <i>RSC Advances</i> , 2020 , 10, 5961-5971	3.7	6
339	Synchrotron Consortia for Catalysis and Electrocatalysis Research. <i>Synchrotron Radiation News</i> , 2020 , 33, 2-3	0.6	1
338	Defense Synchrotron Consortium (DSC) at Brookhaven National Laboratory. <i>Synchrotron Radiation News</i> , 2020 , 33, 29-34	0.6	
337	Synchrotron Catalysis Consortium (SCC) at NSLS-II: Dedicated Beamline Facilities for In Situ and Operando Characterization of Catalysts. <i>Synchrotron Radiation News</i> , 2020 , 33, 4-9	0.6	3
336	Enhancing ORR Performance of Bimetallic PdAg Electrocatalysts by Designing Interactions between Pd and Ag. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2342-2349	6.1	16
335	Origin of the anomalous Pb-Br bond dynamics in formamidinium lead bromide perovskites. <i>Physical Review B</i> , 2020 , 101,	3.3	7
334	Metal-Organic Framework- and Polyoxometalate-Based Sorbents for the Uptake and Destruction of Chemical Warfare Agents. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14641-14661	9.5	23
333	Multi-Modal Synchrotron Characterization: Modern Techniques and Data Analysis 2020 , 39-64		1
332	Machine-Learning Assisted Structure Determination of Metallic Nanoparticles: A Benchmark 2020 , 127-140		1
331	New Role of Pd Hydride as a Sensor of Surface Pd Distributions in PdAu Catalysts. <i>ChemCatChem</i> , 2020 , 12, 717-721	5.2	6
330	A review of defect structure and chemistry in ceria and its solid solutions. <i>Chemical Society Reviews</i> , 2020 , 49, 554-592	58.5	134
329	Multimodal Characterization of Materials and Decontamination Processes for Chemical Warfare Protection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14721-14738	9.5	12

328	Controlling Speciation during CO ₂ Reduction on Cu-Alloy Electrodes. <i>ACS Catalysis</i> , 2020 , 10, 672-682	13.1	58
327	Ethylene Dehydroaromatization over Ga-ZSM-5 Catalysts: Nature and Role of Gallium Speciation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19592-19601	16.4	14
326	Electrochemical Activation of LiMnO Electrodes at 0 °C and Its Impact on the Subsequent Performance at Higher Temperatures. <i>Materials</i> , 2020 , 13,	3.5	5
325	Ethylene Dehydroaromatization over Ga-ZSM-5 Catalysts: Nature and Role of Gallium Speciation. <i>Angewandte Chemie</i> , 2020 , 132, 19760-19769	3.6	
324	Nucleation and Initial Stages of Growth during the Atomic Layer Deposition of Titanium Oxide on Mesoporous Silica. <i>Nano Letters</i> , 2020 , 20, 6884-6890	11.5	9
323	High-Performance Nitrogen-Doped Intermetallic PtNi Catalyst for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020 , 10, 10637-10645	13.1	38
322	Direct Identification of Mixed-Metal Centers in Metal-Organic Frameworks: Cu(BTC) Transmetalated with Rh Ions. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8138-8144	6.4	4
321	Capture and Decomposition of the Nerve Agent Simulant, DMCP, Using the Zeolitic Imidazolate Framework (ZIF-8). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 58326-58338	9.5	7
320	Silver clusters shape determination from in-situ XANES data. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108049	2.5	13
319	Insight into restructuring of Pd-Au nanoparticles using EXAFS. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108304	2.5	4
318	PhotoThermo Catalytic Oxidation over a TiO ₂ -WO ₃ -Supported Platinum Catalyst. <i>Angewandte Chemie</i> , 2020 , 132, 13009-13016	3.6	8
317	Enhancing catalytic performance of dilute metal alloy nanomaterials. <i>Communications Chemistry</i> , 2020 , 3,	6.3	20
316	Inverting X-ray Absorption Spectra of Catalysts by Machine Learning in Search for Activity Descriptors. <i>ACS Catalysis</i> , 2019 , 9, 10192-10211	13.1	55
315	Oxygen vacancy ordering and viscoelastic mechanical properties of doped ceria ceramics. <i>Scripta Materialia</i> , 2019 , 163, 19-23	5.6	12
314	Solving the Structure and Dynamics of Metal Nanoparticles by Combining X-Ray Absorption Fine Structure Spectroscopy and Atomistic Structure Simulations. <i>Annual Review of Analytical Chemistry</i> , 2019 , 12, 501-522	12.5	21
313	Modeling Strain Distribution at the Atomic Level in Doped Ceria Films with Extended X-ray Absorption Fine Structure Spectroscopy. <i>Inorganic Chemistry</i> , 2019 , 58, 7527-7536	5.1	20
312	Correlated Multimodal Approach Reveals Key Details of Nerve-Agent Decomposition by Single-Site Zr-Based Polyoxometalates. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2295-2299	6.4	17
311	Effects of Molecular and Electronic Structures in CoO _x /CeO ₂ Catalysts on NO Reduction by CO. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7166-7177	3.8	21

310	Local Structure and Electronic State of Atomically Dispersed Pt Supported on Nanosized CeO ₂ . <i>ACS Catalysis</i> , 2019 , 9, 8738-8748	13.1	40
309	Electrodeposition of MoS Hydrogen Evolution Catalysts from Sulfur-Rich Precursors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32879-32886	9.5	27
308	Dilute Pd/Au Alloy Nanoparticles Embedded in Colloid-Templated Porous SiO ₂ : Stable Au-Based Oxidation Catalysts. <i>Chemistry of Materials</i> , 2019 , 31, 5759-5768	9.6	34
307	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2019 , 131, 16685-16689	3.6	4
306	Mapping XANES spectra on structural descriptors of copper oxide clusters using supervised machine learning. <i>Journal of Chemical Physics</i> , 2019 , 151, 164201	3.9	31
305	Evolution of steady-state material properties during catalysis: Oxidative coupling of methanol over nanoporous Ag _{0.03} Au _{0.97} . <i>Journal of Catalysis</i> , 2019 , 380, 366-374	7.3	18
304	Compositional control of radionuclide retention in hollandite-based ceramic waste forms for Cs-immobilization. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4314-4324	3.8	10
303	Effect of Carbon Dioxide on the Degradation of Chemical Warfare Agent Simulant in the Presence of Zr Metal Organic Framework MOF-808. <i>Chemistry of Materials</i> , 2019 , 31, 9904-9914	9.6	17
302	Selective Catalytic Chemistry at Rhodium(II) Nodes in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16533-16537	16.4	18
301	Key mechanistic details of paraoxon decomposition by polyoxometalates: Critical role of para-nitro substitution. <i>Chemical Physics</i> , 2019 , 518, 30-37	2.3	7
300	Designing Nanoplatelet Alloy/Nafion Catalytic Interface for Optimization of PEMFCs: Performance, Durability, and CO Resistance. <i>ACS Catalysis</i> , 2019 , 9, 1446-1456	13.1	23
299	Endogenous Dynamic Nuclear Polarization for Natural Abundance O and Lithium NMR in the Bulk of Inorganic Solids. <i>Journal of the American Chemical Society</i> , 2019 , 141, 451-462	16.4	47
298	Probing Atomic Distributions in Mono- and Bimetallic Nanoparticles by Supervised Machine Learning. <i>Nano Letters</i> , 2019 , 19, 520-529	11.5	54
297	Operando Structure Determination of Cu and Zn on Supported MgO/SiO ₂ Catalysts during Ethanol Conversion to 1,3-Butadiene. <i>ACS Catalysis</i> , 2019 , 9, 269-285	13.1	24
296	Investigation of periodically driven systems by x-ray absorption spectroscopy using asynchronous data collection mode. <i>Review of Scientific Instruments</i> , 2018 , 89, 045111	1.7	4
295	In Situ Characterization of Mesoporous Co/CeO ₂ Catalysts for the High-Temperature Water-Gas Shift. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8998-9008	3.8	21
294	Nanoporous Copper-Silver Alloys by Additive-Controlled Electrodeposition for the Selective Electroreduction of CO to Ethylene and Ethanol. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5791-5797	16.4	398
293	Nanoparticle Doping: Doping of Fullerene-Like MoS ₂ Nanoparticles with Minute Amounts of Niobium (Part. Part. Syst. Charact. 3/2018). <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1870009	2.1	19

292	Modeling Gas Flow Dynamics in Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1092-1096	6.4	1
291	Growth of Nanoparticles with Desired Catalytic Functions by Controlled Doping-Segregation of Metal in Oxide. <i>Chemistry of Materials</i> , 2018 , 30, 1585-1592	9.6	10
290	Identifying Dynamic Structural Changes of Active Sites in PtNi Bimetallic Catalysts Using Multimodal Approaches. <i>ACS Catalysis</i> , 2018 , 8, 4120-4131	13.1	38
289	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. <i>Nature Communications</i> , 2018 , 9, 1231	17.4	140
288	Cluster Assemblies Produced by Aggregation of Preformed Ag Clusters in Ionic Liquids. <i>Langmuir</i> , 2018 , 34, 4811-4819	4	11
287	In Situ Elucidation of the Active State of CoTeOx Catalysts in the Dry Reforming of Methane: The Important Role of the Reducible Oxide Support and Interactions with Cobalt. <i>ACS Catalysis</i> , 2018 , 8, 3550-3560	13.1	56
286	Catalysis on Singly Dispersed Rh Atoms Anchored on an Inert Support. <i>ACS Catalysis</i> , 2018 , 8, 110-121	13.1	51
285	Anelastic and Electromechanical Properties of Doped and Reduced Ceria. <i>Advanced Materials</i> , 2018 , 30, e1707455	24	14
284	Experimental and Theoretical Structural Investigation of AuPt Nanoparticles Synthesized Using a Direct Electrochemical Method. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6249-6259	16.4	24
283	Understanding the Role of Minor Molybdenum Doping in LiNiCoMnO Electrodes: from Structural and Surface Analyses and Theoretical Modeling to Practical Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29608-29621	9.5	60
282	Buffer-Induced Acceleration and Inhibition in Polyoxometalate-Catalyzed Organophosphorus Ester Hydrolysis. <i>ACS Catalysis</i> , 2018 , 8, 7068-7076	13.1	22
281	Identification of dopant site and its effect on electrochemical activity in Mn-doped lithium titanate. <i>Physical Review Materials</i> , 2018 , 2,	3.2	9
280	Relaxation and saturation of electrostriction in 10 mol% Gd-doped ceria ceramics. <i>Acta Materialia</i> , 2018 , 144, 411-418	8.4	34
279	Doping of Fullerene-Like MoS2 Nanoparticles with Minute Amounts of Niobium. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700165	3.1	1
278	A comprehensive study of catalytic, morphological and electronic properties of ligand-protected gold nanoclusters using XPS, STM, XAFS, and TPD techniques. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1497-1503	3.6	5
277	Structural characterization of heterogeneous RhAu nanoparticles from a microwave-assisted synthesis. <i>Nanoscale</i> , 2018 , 10, 22520-22532	7.7	10
276	Selective CO Reduction Catalyzed by Single Cobalt Sites on Carbon Nitride under Visible-Light Irradiation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16042-16047	16.4	173
275	Subnanometer Substructures in Nanoassemblies Formed from Clusters under a Reactive Atmosphere Revealed Using Machine Learning. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21686-21693	3.8	48

274	Controlling Anisotropic Growth of Colloidal ZnSe Nanostructures. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14627-14637	16.4	27
273	Neural Network Approach for Characterizing Structural Transformations by X-Ray Absorption Fine Structure Spectroscopy. <i>Physical Review Letters</i> , 2018 , 120, 225502	7.4	60
272	Synchrotron Radiation and Neutrons for Catalysis, Materials Research and Development. <i>Synchrotron Radiation News</i> , 2018 , 31, 56-58	0.6	1
271	Highly active subnanometer Rh clusters derived from Rh-doped SrTiO ₃ for CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 1003-1011	21.8	39
270	Effects of Metal Composition and Ratio on Peptide-Templated Multimetallic PdPt Nanomaterials. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8030-8040	9.5	14
269	Catalysis and Photocatalysis by Nanoscale Au/TiO ₂ : Perspectives for Renewable Energy. <i>ACS Energy Letters</i> , 2017 , 2, 1223-1231	20.1	71
268	Mechanism and Kinetics for Reaction of the Chemical Warfare Agent Simulant, DMMP(g), with Zirconium(IV) MOFs: An Ultrahigh-Vacuum and DFT Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11261-11272	3.8	88
267	Atomic-Level Structural Dynamics of Polyoxoniobates during DMMP Decomposition. <i>Scientific Reports</i> , 2017 , 7, 773	4.9	19
266	Characterization of Model Nanocatalysts by X-ray Absorption Spectroscopy. <i>Studies in Surface Science and Catalysis</i> , 2017 , 149-183	1.8	2
265	High-Temperature Treatment of Li-Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. <i>Advanced Energy Materials</i> , 2017 , 7, 1700708	21.8	102
264	Size Dependence of Doping by a Vacancy Formation Reaction in Copper Sulfide Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10335-10340	16.4	22
263	New In-Situ and Operando Facilities for Catalysis Science at NSLS-II: The Deployment of Real-Time, Chemical, and Structure-Sensitive X-ray Probes. <i>Synchrotron Radiation News</i> , 2017 , 30, 30-37	0.6	22
262	Determination of bimetallic architectures in nanometer-scale catalysts by combining molecular dynamics simulations with x-ray absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2017 , 146, 114201	3.9	23
261	In Situ Probes of Capture and Decomposition of Chemical Warfare Agent Simulants by Zr-Based Metal Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 599-602	16.4	132
260	Supervised Machine-Learning-Based Determination of Three-Dimensional Structure of Metallic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5091-5098	6.4	137
259	Multi-Stage Structural Transformations in Zero-Strain Lithium Titanate Unveiled by in Situ X-ray Absorption Fingerprints. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16591-16603	16.4	43
258	Structural Characterization of Rh and RhAu Dendrimer-Encapsulated Nanoparticles. <i>Langmuir</i> , 2017 , 33, 12434-12442	4	12
257	Role of Lewis and Brønsted Acidity in Metal Chloride Catalysis in Organic Media: Reductive Etherification of Furanics. <i>ACS Catalysis</i> , 2017 , 7, 7363-7370	13.1	36

256	Size dependent behavior of FeO crystals during electrochemical (de)lithiation: an in situ X-ray diffraction, ex situ X-ray absorption spectroscopy, transmission electron microscopy and theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20867-20880	3.6	40
255	Size Dependence of Doping by a Vacancy Formation Reaction in Copper Sulfide Nanocrystals. <i>Angewandte Chemie</i> , 2017 , 129, 10471-10476	3.6	8
254	Multimodal Study of the Speciations and Activities of Supported Pd Catalysts During the Hydrogenation of Ethylene. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18962-18972	3.8	18
253	Computationally Assisted STEM and EXAFS Characterization of Tunable Rh/Au and Rh/Ag Bimetallic Nanoparticle Catalysts. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2030-2031	0.5	10
252	Anomalous Structural Disorder in Supported Pt Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3284-3288	6.4	15
251	Metal Nanocatalysts 2017 , 273-298		4
250	Tuning Catalytic Performance through a Single or Sequential Post-Synthesis Reaction(s) in a Gas Phase. <i>ACS Catalysis</i> , 2017 , 7, 191-204	13.1	25
249	Probing structural relaxation in nanosized catalysts by combining EXAFS and reverse Monte Carlo methods. <i>Catalysis Today</i> , 2017 , 280, 274-282	5.3	29
248	Structural Analysis and Electrochemical Properties of Bimetallic PalladiumPlatinum Aerogels Prepared by a Two-Step Gelation Process. <i>ChemCatChem</i> , 2017 , 9, 798-808	5.2	13
247	Operando and multimodal studies of speciation and activity of Pt catalysts during the hydrogenation of ethylene. <i>Microscopy and Microanalysis</i> , 2017 , 23, 892-893	0.5	
246	Reversed Nanoscale Kirkendall Effect in AuInAs Hybrid Nanoparticles. <i>Chemistry of Materials</i> , 2016 , 28, 8032-8043	9.6	17
245	Low-Temperature Transformation of Methane to Methanol on Pd1O4 Single Sites Anchored on the Internal Surface of Microporous Silicate. <i>Angewandte Chemie</i> , 2016 , 128, 13639-13643	3.6	30
244	Identification of carbon-encapsulated iron nanoparticles as active species in non-precious metal oxygen reduction catalysts. <i>Nature Communications</i> , 2016 , 7, 12582	17.4	206
243	Using combined XAS/DRIFTS to study CO/NO Oxidation over Pt/Al2O3 catalysts. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012045	0.3	5
242	Formation of Second-Generation Nanoclusters on Metal Nanoparticles Driven by Reactant Gases. <i>Nano Letters</i> , 2016 , 16, 5001-9	11.5	27
241	Interfacial Cu+ promoted surface reactivity: Carbon monoxide oxidation reaction over polycrystalline copperTitania catalysts. <i>Surface Science</i> , 2016 , 652, 206-212	1.8	17
240	Dynamics of CrO3Fe2O3 Catalysts during the High-Temperature Water-Gas Shift Reaction: Molecular Structures and Reactivity. <i>ACS Catalysis</i> , 2016 , 6, 4786-4798	13.1	55
239	Reduction of Nitric Oxide with Hydrogen on Catalysts of Singly Dispersed Bimetallic Sites Pt1Com and Pd1Con. <i>ACS Catalysis</i> , 2016 , 6, 840-850	13.1	66

238	Homogeneity and elemental distribution in self-assembled bimetallic Pd-Pt aerogels prepared by a spontaneous one-step gelation process. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 20640-50	3.6	14
237	Solving local structure around dopants in metal nanoparticles with ab initio modeling of X-ray absorption near edge structure. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19621-30	3.6	22
236	XAFS characterization of industrial catalysts: in situ study of phase transformation of nickel sulfide. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012145	0.3	2
235	Thermal properties of size-selective nanoparticles: Effect of the particle size on Einstein temperature. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012063	0.3	
234	Geometry of electromechanically active structures in Gadolinium - doped Cerium oxides. <i>AIP Advances</i> , 2016 , 6, 055320	1.5	22
233	A combined theoretical and experimental EXAFS study of the structure and dynamics of Au ¹⁴⁷ nanoparticles. <i>Catalysis Science and Technology</i> , 2016 , 6, 6879-6885	5.5	22
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