

Anatoly Frenkel

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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	Understanding the phase-change mechanism of rewritable optical media. <i>Nature Materials</i> , 2004 , 3, 703-8	16.4	1057
380	Hydrogen-evolution catalysts based on non-noble metal nickel-molybdenum nitride nanosheets. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6131-5	16.4	1037
379	Ternary Pt/Rh/SnO ₂ electrocatalysts for oxidizing ethanol to CO ₂ . <i>Nature Materials</i> , 2009 , 8, 325-30	27	636
378	A View from the Inside: Complexity in the Atomic Scale Ordering of Supported Metal Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 12689-12703	3.4	535
377	Insights into the interplay of Lewis and Brønsted acid catalysts in glucose and fructose conversion to 5-(hydroxymethyl)furfural and levulinic acid in aqueous media. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3997-4006	16.4	496
376	Reduction of CuO and Cu ₂ O with H ₂ : H embedding and kinetic effects in the formation of suboxides. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10684-92	16.4	414
375	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
374	Spectroscopic Characterization of Mixed Fe/Ni Oxide Electrocatalysts for the Oxygen Evolution Reaction in Alkaline Electrolytes. <i>ACS Catalysis</i> , 2012 , 2, 1793-1801	13.1	362
373	Shape-dependent catalytic properties of Pt nanoparticles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15714-9	16.4	358
372	Experimental and theoretical studies on the reaction of H(2) with NiO: role of O vacancies and mechanism for oxide reduction. <i>Journal of the American Chemical Society</i> , 2002 , 124, 346-54	16.4	278
371	Structural Characterization of Carbon-Supported Platinum/Ruthenium Nanoparticles from the Molecular Cluster Precursor PtRu ₅ C(CO) ₁₆ . <i>Journal of the American Chemical Society</i> , 1997 , 119, 7760-7771	16.4	274
370	Correlating particle size and shape of supported Ru/gamma-Al ₂ O ₃ catalysts with NH ₃ decomposition activity. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12230-9	16.4	218
369	Applications of extended X-ray absorption fine-structure spectroscopy to studies of bimetallic nanoparticle catalysts. <i>Chemical Society Reviews</i> , 2012 , 41, 8163-78	58.5	210
368	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
367	Core Shell Inversion during Nucleation and Growth of Bimetallic Pt/Ru Nanoparticles. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8093-8101	16.4	197
366	Structural and architectural evaluation of bimetallic nanoparticles: a case study of Pt-Ru core-shell and alloy nanoparticles. <i>ACS Nano</i> , 2009 , 3, 3127-37	16.7	193
365	Reduction of CuO in H ₂ : In Situ Time-Resolved XRD Studies. <i>Catalysis Letters</i> , 2003 , 85, 247-254	2.8	190

364	Thermal expansion and x-ray-absorption fine-structure cumulants. <i>Physical Review B</i> , 1993 , 48, 585-588	3.3	183
363	Catalysis on singly dispersed bimetallic sites. <i>Nature Communications</i> , 2015 , 6, 7938	17.4	182
362	Evidence for a terminal Pt(IV)-oxo complex exhibiting diverse reactivity. <i>Nature</i> , 2008 , 455, 1093-1096	50.4	176
361	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
360	Time-resolved Studies for the Mechanism of Reduction of Copper Oxides with Carbon Monoxide: Complex Behavior of Lattice Oxygen and the Formation of Suboxides. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13667-13673	3.4	159
359	Platinum-tin oxide core-shell catalysts for efficient electro-oxidation of ethanol. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10862-5	16.4	150
358	Carbon Support Effects on Bimetallic PtRu Nanoparticles Formed from Molecular Precursors. <i>Langmuir</i> , 1999 , 15, 690-700	4	149
357	Chitosan and chitosan-ZnO-based complex nanoparticles: formation, characterization, and antibacterial activity. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1968-1976	7.3	148
356	Nanoscale disorder in CaCu ₃ Ti ₄ O ₁₂ : a new route to the enhanced dielectric response. <i>Physical Review Letters</i> , 2007 , 99, 037602	7.4	144
355	Highly active iridium/iridium-tin/tin oxide heterogeneous nanoparticles as alternative electrocatalysts for the ethanol oxidation reaction. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15172-83	16.4	141
354	Single rhodium atoms anchored in micropores for efficient transformation of methane under mild conditions. <i>Nature Communications</i> , 2018 , 9, 1231	17.4	140
353	Structural Rearrangement of Bimetallic Alloy PdAu Nanoparticles within Dendrimer Templates to Yield Core/Shell Configurations. <i>Chemistry of Materials</i> , 2008 , 20, 1019-1028	9.6	138
352	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
351	WGS catalysis and in situ studies of CoO(1-x), PtCo(n)/Co ₃ O ₄ , and Pt(m)Co(m')/CoO(1-x) nanorod catalysts. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8283-93	16.4	136
350	PtMo alloy and MoO(x)@Pt core-shell nanoparticles as highly CO-tolerant electrocatalysts. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6924-5	16.4	134
349	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
348	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
347	Modeling the structure and composition of nanoparticles by extended X-ray absorption fine-structure spectroscopy. <i>Annual Review of Analytical Chemistry</i> , 2011 , 4, 23-39	12.5	130

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- 345 Formation of Pd/Au nanostructures from Pd nanowires via galvanic replacement reaction. *Journal of the American Chemical Society*, **2008**, 130, 1093-101 16.4 129
- 344 Catalysis and In Situ Studies of Rh₁/Co₃O₄ Nanorods in Reduction of NO with H₂. *ACS Catalysis*, **2013**, 3, 1011-1019 13.1 126
- 343 Synthesis and Characterization of Pt Dendrimer-Encapsulated Nanoparticles: Effect of the Template on Nanoparticle Formation. *Chemistry of Materials*, **2008**, 20, 5218-5228 9.6 126
- 342 Reaction-Relevant Gold Structures in the Low Temperature Water-Gas Shift Reaction on Au-CeO₂. *Journal of Physical Chemistry C*, **2008**, 112, 12834-12840 3.8 122
- 341 In Situ Characterization of CuFe₂O₄ and Cu/Fe₃O₄ Water-Gas Shift Catalysts. *Journal of Physical Chemistry C*, **2009**, 113, 14411-14417 3.8 119
- 340 Unusual non-bulk properties in nanoscale materials: thermal metal-metal bond contraction of gamma-alumina-supported Pt catalysts. *Journal of the American Chemical Society*, **2006**, 128, 12068-9 16.4 118
- 339 Low-Temperature Transformation of Methane to Methanol on Pd O Single Sites Anchored on the Internal Surface of Microporous Silicate. *Angewandte Chemie - International Edition*, **2016**, 55, 13441-13445 16.4 116
- 338 EXAFS Study of the Inner Shell Structure in Copper(II) Complexes with Humic Substances. *Environmental Science & Technology*, **1998**, 32, 2699-2705 10.3 111
- 337 Solving the 3D structure of metal nanoparticles. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2007**, 222, 1-10 1 109
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- 335 Elimination of self-absorption in fluorescence hard-x-ray absorption spectra. *Physical Review B*, **1999**, 60, 9335-9339 3.3 103
- 334 High-Temperature Treatment of Li-Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. *Advanced Energy Materials*, **2017**, 7, 1700708 21.8 102
- 333 Intraparticle reduction of arsenite (As(III)) by nanoscale zerovalent iron (nZVI) investigated with In Situ X-ray absorption spectroscopy. *Environmental Science & Technology*, **2012**, 46, 7018-26 10.3 102
- 332 Dopant location identification in Nd³⁺-doped TiO₂ nanoparticles. *Physical Review B*, **2005**, 72, 035411 3.3 102
- 331 Size-controlled synthesis and characterization of thiol-stabilized gold nanoparticles. *Journal of Chemical Physics*, **2005**, 123, 184701 3.9 101
- 330 Hydrogen-Evolution Catalysts Based on Non-Noble Metal Nickel-Molybdenum Nitride Nanosheets. *Angewandte Chemie*, **2012**, 124, 6235-6239 3.6 99
- 329 A new *Klebsiella planticola* strain (Cd-1) grows anaerobically at high cadmium concentrations and precipitates cadmium sulfide. *Applied and Environmental Microbiology*, **2000**, 66, 3083-7 4.8 98

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327	Complex structural dynamics of nanocatalysts revealed in Operando conditions by correlated imaging and spectroscopy probes. <i>Nature Communications</i> , 2015 , 6, 7583	17.4	94
326	Solving the structure of nanoparticles by multiple-scattering EXAFS analysis. <i>Journal of Synchrotron Radiation</i> , 1999 , 6, 293-5	2.4	93
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324	Synchrotron Techniques for In Situ Catalytic Studies: Capabilities, Challenges, and Opportunities. <i>ACS Catalysis</i> , 2012 , 2, 2269-2280	13.1	91
323	Integration of the polyphenol and Maillard reactions into a unified abiotic pathway for humification in nature. <i>Organic Geochemistry</i> , 2004 , 35, 747-762	3.1	90
322	Crystallographic recognition controls peptide binding for bio-based nanomaterials. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12346-9	16.4	89
321	Active site electronic structure and dynamics during metalloenzyme catalysis. <i>Nature Structural Biology</i> , 2003 , 10, 98-103		89
320	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
319	Solving the structure of size-selected Pt nanocatalysts synthesized by inverse micelle encapsulation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8747-56	16.4	86
318	Structural analysis of PdAu dendrimer-encapsulated bimetallic nanoparticles. <i>Langmuir</i> , 2010 , 26, 1137-46		86
317	Electronic and magnetic properties of ultrathin Au/Pt nanowires. <i>Nano Letters</i> , 2009 , 9, 3177-84	11.5	85
316	Elucidation of peptide-directed palladium surface structure for biologically tunable nanocatalysts. <i>ACS Nano</i> , 2015 , 9, 5082-92	16.7	83
315	XANES Study of Cu ²⁺ -Binding Sites in Aquatic Humic Substances. <i>Environmental Science & Technology</i> , 2000 , 34, 2138-2142	10.3	83
314	Characterization of palladium nanoparticles by using X-ray reflectivity, EXAFS, and electron microscopy. <i>Langmuir</i> , 2006 , 22, 807-16	4	81
313	Effects of surface disorder on EXAFS modeling of metallic clusters. <i>Physical Review B</i> , 2010 , 81,	3.3	79
312	Combining X-ray Absorption and X-ray Diffraction Techniques for in Situ Studies of Chemical Transformations in Heterogeneous Catalysis: Advantages and Limitations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17884-17890	3.8	75
311	Metal core bonding motifs of monodisperse icosahedral Au ₁₃ and larger Au monolayer-protected clusters as revealed by X-ray absorption spectroscopy and transmission electron microscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14564-73	3.4	75

310	Conversion of methane to methanol with a bent mono(Ebxo)dinickel anchored on the internal surfaces of micropores. <i>Langmuir</i> , 2014 , 30, 8558-69	4	74
309	Dynamic structure in supported Pt nanoclusters: Real-time density functional theory and x-ray spectroscopy simulations. <i>Physical Review B</i> , 2008 , 78,	3.3	73
308	Phase speciation by extended x-ray absorption fine structure spectroscopy. <i>Journal of Chemical Physics</i> , 2002 , 116, 9449-9456	3.9	73
307	Giant electrostriction in Gd-doped ceria. <i>Advanced Materials</i> , 2012 , 24, 5857-61	24	72
306	Catalysis and Photocatalysis by Nanoscale Au/TiO ₂ : Perspectives for Renewable Energy. <i>ACS Energy Letters</i> , 2017 , 2, 1223-1231	20.1	71
305	Strain energy density in the x-ray powder diffraction from mixed crystals and alloys. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 8081-8088	1.8	70
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303	Determining peptide sequence effects that control the size, structure, and function of nanoparticles. <i>ACS Nano</i> , 2012 , 6, 1625-36	16.7	68
302	Periodicity and Atomic Ordering in Nanosized Particles of Crystals. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8907-8911	3.8	68
301	Controlled doping of MS ₂ (M=W, Mo) nanotubes and fullerene-like nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1148-51	16.4	67
300	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 \square <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1311-1322	3.8	67
299	Reduction of Nitric Oxide with Hydrogen on Catalysts of Singly Dispersed Bimetallic Sites Pt ₁ Co _m and Pd ₁ Co _n . <i>ACS Catalysis</i> , 2016 , 6, 840-850	13.1	66
298	Nature of WO _x Sites on SiO ₂ and Their Molecular StructureReactivity/Selectivity Relationships for Propylene Metathesis. <i>ACS Catalysis</i> , 2016 , 6, 3061-3071	13.1	66
297	Anisotropy in BaFe ₂ Se ₃ single crystals with double chains of FeSe tetrahedra. <i>Physical Review B</i> , 2011 , 84,	3.3	64
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293	Preparation of (Ga _{1-x} Zn _x)(N _{1-x} O _x) Photocatalysts from the Reaction of NH ₃ with Ga ₂ O ₃ /ZnO and ZnGa ₂ O ₄ : In Situ Time-Resolved XRD and XAFS Studies. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3650-3659	3.8	61

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291	An experimental and theoretical investigation of the inversion of pd@pt core@shell dendrimer-encapsulated nanoparticles. <i>ACS Nano</i> , 2013 , 7, 9345-53	16.7	60
290	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
289	Evolution of the local structure at the phase transition in CeO ₂ -Gd ₂ O ₃ solid solutions. <i>Physical Review B</i> , 2013 , 87,	3.3	58
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286	Controlling Speciation during CO ₂ Reduction on Cu-Alloy Electrodes. <i>ACS Catalysis</i> , 2020 , 10, 672-682	13.1	58
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279	Geometrical Characteristics of Regular Polyhedra: Application to EXAFS Studies of Nanoclusters. <i>AIP Conference Proceedings</i> , 2007 ,	0	54
278	Probing Atomic Distributions in Mono- and Bimetallic Nanoparticles by Supervised Machine Learning. <i>Nano Letters</i> , 2019 , 19, 520-529	11.5	54
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276	Solving the structure of disordered mixed salts. <i>Physical Review B</i> , 1994 , 49, 11662-11674	3.3	53
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268	Nanoscale disorder and local electronic properties of CaCu ₃ Ti ₄ O ₁₂ : An integrated study of electron, neutron, and x-ray diffraction, x-ray absorption fine structure, and first-principles calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	49
267	Carbon-Supported IrNi Core/Shell Nanoparticles: Synthesis, Characterization, and Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9894-9902	3.8	49
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260	Short range order in bimetallic nanoalloys: an extended X-ray absorption fine structure study. <i>Journal of Chemical Physics</i> , 2013 , 138, 064202	3.9	46
259	Application of Operando XAS, XRD, and Raman Spectroscopy for Phase Speciation in Water Gas Shift Reaction Catalysts. <i>ACS Catalysis</i> , 2012 , 2, 2216-2223	13.1	46
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254	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
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248	Flame synthesis of nanosized Cu-Ce-O, Ni-Ce-O, and Fe-Ce-O catalysts for the water-gas shift (WGS) reaction. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2624-35	9.5	42
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245	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
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242	Hybrid Pt/Au Nanowires: Synthesis and Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14696-14701	3.8	39
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240	Atomic-scale identification of Pd leaching in nanoparticle catalyzed C-C coupling: effects of particle surface disorder. <i>Chemical Science</i> , 2015 , 6, 6413-6419	9.4	38
239	Identifying Dynamic Structural Changes of Active Sites in Pt-Ni Bimetallic Catalysts Using Multimodal Approaches. <i>ACS Catalysis</i> , 2018 , 8, 4120-4131	13.1	38

- 238 Comparative in Operando Studies in Heterogeneous Catalysis: Atomic and Electronic Structural Features in the Hydrogenation of Ethylene over Supported Pd and Pt Catalysts. *ACS Catalysis*, **2015**, 5, 1539-1551 13.1 38
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