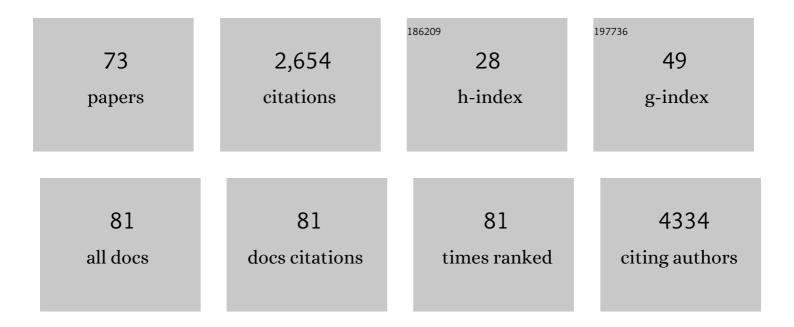
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Surface structure of magnetite (111) under oxidizing and reducing conditions. Journal of Physics Condensed Matter, 2022, 34, 164003.	0.7	7
2	Controlled Growth of Gold Nanoparticles on Covellite Copper Sulfide Nanoplatelets for the Formation of Plate–Satellite Hybrid Structures. Chemistry of Materials, 2022, 34, 1157-1166.	3.2	7
3	Strengthening Engineered Nanocrystal Three-Dimensional Superlattices via Ligand Conformation and Reactivity. ACS Nano, 2022, 16, 11692-11707.	7.3	8
4	<i>Operando</i> reaction cell for high energy surface sensitive x-ray diffraction and reflectometry. Review of Scientific Instruments, 2022, 93, .	0.6	2
5	Metastability of palladium carbide nanoparticles during hydrogen release from liquid organic hydrogen carriers. Physical Chemistry Chemical Physics, 2021, 23, 1371-1380.	1.3	5
6	Heterogeneous Adsorption and Local Ordering of Formate on a Magnetite Surface. Journal of Physical Chemistry Letters, 2021, 12, 3847-3852.	2.1	7
7	Durability of Colloidally Stabilized Supported Nickel and Nickel Platinum Nanoparticles during Redox-Cycling. Journal of Physical Chemistry C, 2021, 125, 8224-8235.	1.5	1
8	Temperature-dependent near-surface interstitial segregation in niobium. Journal of Physics Condensed Matter, 2021, 33, 265001.	0.7	3
9	Response of free-standing graphene monolayer exposed to ultrashort intense XUV pulse from free-electron laser. Journal of Chemical Physics, 2021, 154, 204706.	1.2	3
10	A model study on controlling dealloying corrosion attack by lateral modification of surfactant inhibitors. Npj Materials Degradation, 2021, 5, .	2.6	8
11	Gold Nanoparticle-Based Chemiresistors: Recognition of Volatile Organic Compounds Using Tunable Response Kinetics. ACS Applied Nano Materials, 2021, 4, 10399-10408.	2.4	8
12	Hydrogen Solubility and Atomic Structure of Graphene Supported Pd Nanoclusters. ACS Nano, 2021, 15, 15771-15780.	7.3	9
13	Copper Nanoparticles with High Index Facets on Basal and Vicinal ZnO Surfaces. Journal of Physical Chemistry C, 2021, 125, 23561-23569.	1.5	6
14	Grain boundary segregation and carbide precipitation in heat treated niobium superconducting radio frequency cavities. Applied Physics Letters, 2021, 119, .	1.5	5
15	Effect of Cr on the hydrogen storage and electronic properties of BCC alloys: Experimental and first-principles study. International Journal of Hydrogen Energy, 2020, 45, 28996-29008.	3.8	21
16	Ultrafast Real-Time Dynamics of CO Oxidation over an Oxide Photocatalyst. ACS Catalysis, 2020, 10, 13650-13658.	5.5	11
17	Elucidating the Defect-Induced Changes in the Photocatalytic Activity of TiO ₂ . Journal of Physical Chemistry C, 2020, 124, 12539-12547.	1.5	19
18	Function Follows Form: From Semiconducting to Metallic toward Superconducting PbS Nanowires by Faceting the Crystal. Advanced Functional Materials, 2020, 30, 1910503.	7.8	5

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19	Lateral variation of the native passive film on super duplex stainless steel resolved by synchrotron hard X-ray photoelectron emission microscopy. Corrosion Science, 2020, 174, 108841.	3.0	22
20	Observation of iron diffusion in the near-surface region of magnetite at 470 K. Physical Review Research, 2020, 2, .	1.3	3
21	Carboxylic acid induced near-surface restructuring of a magnetite surface. Communications Chemistry, 2019, 2, .	2.0	17
22	Protein-Protected Porous Bimetallic AgPt Nanoparticles with pH-Switchable Peroxidase/Catalase-Mimicking Activity. , 2019, 1, 310-319.		35
23	Tuning the Elasticity of Cross-Linked Gold Nanoparticle Assemblies. Journal of Physical Chemistry C, 2019, 123, 19165-19174.	1.5	11
24	Interaction of Water with Graphene/Ir(111) Studied by Vibrational Spectroscopy. Langmuir, 2019, 35, 11285-11290.	1.6	7
25	A high-pressure x-ray photoelectron spectroscopy instrument for studies of industrially relevant catalytic reactions at pressures of several bars. Review of Scientific Instruments, 2019, 90, .	0.6	63
26	Water and Atomic Hydrogen Adsorption on Magnetite (001). Journal of Physical Chemistry C, 2019, 123, 26662-26672.	1.5	10
27	Modulating the Mechanical Properties of Supercrystalline Nanocomposite Materials via Solvent–Ligand Interactions. Langmuir, 2019, 35, 13893-13903.	1.6	26
28	Elasticity of Cross-Linked Titania Nanocrystal Assemblies Probed by AFM-Bulge Tests. Nanomaterials, 2019, 9, 1230.	1.9	6
29	Surface Reconstruction under the Exposure of Electric Fields Enhances the Reactivity of Donor-Doped SrTiO ₃ . Journal of Physical Chemistry C, 2019, 123, 16883-16892.	1.5	26
30	Characterization of Native Oxide and Passive Film on Austenite/Ferrite Phases of Duplex Stainless Steel Using Synchrotron HAXPEEM. Journal of the Electrochemical Society, 2019, 166, C3336-C3340.	1.3	22
31	Niobium near-surface composition during nitrogen infusion relevant for superconducting radio-frequency cavities. Physical Review Accelerators and Beams, 2019, 22, .	0.6	18
32	A New Synthesis Approach for Carbon Nitrides: Poly(triazine imide) and Its Photocatalytic Properties. ACS Omega, 2018, 3, 3892-3900.	1.6	37
33	Highâ€Performance n―and pâ€Type Fieldâ€Effect Transistors Based on Hybridly Surfaceâ€Passivated Colloidal PbS Nanosheets. Advanced Functional Materials, 2018, 28, 1706815.	7.8	15
34	Monitoring the Interaction of CO with Graphene Supported Ir Clusters by Vibrational Spectroscopy and Density Functional Theory Calculations. Journal of Physical Chemistry C, 2018, 122, 4281-4289.	1.5	9
35	Surface characterization of nitrogen-doped Nb (100) large-grain superconducting RF cavity material. Journal of Materials Science, 2018, 53, 10411-10422.	1.7	9
36	Toward Optimization of Centrifugal Barrel Polishing Procedure for Treatment of Niobium Cavities. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	2

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37	Atomically thin monolayers of metal organic frameworks (MOFs) through implementing a Langmuir-Schaefer method. AIP Conference Proceedings, 2018, , .	0.3	1
38	Fabrication of Strain Gauges via Contact Printing: A Simple Route to Healthcare Sensors Based on Cross-Linked Gold Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 37374-37385.	4.0	42
39	Adsorption of Acetone on Rutile TiO ₂ : A DFT and FTIRS Study. Journal of Physical Chemistry C, 2018, 122, 19481-19490.	1.5	23
40	Dehydrogenation of Liquid Organic Hydrogen Carriers on Supported Pd Model Catalysts: Carbon Incorporation Under Operation Conditions. Catalysis Letters, 2018, 148, 2901-2910.	1.4	6
41	Model Catalytic Studies of Novel Liquid Organic Hydrogen Carriers: Indole, Indoline and Octahydroindole on Pt(111). Chemistry - A European Journal, 2017, 23, 14806-14818.	1.7	24
42	Atomic structure and stability of magnetite Fe3O4(001): An X-ray view. Surface Science, 2016, 653, 76-81.	0.8	40
43	Structure and stability of Gd-doped CeO2 thin films on yttria-stabilized zirconia. Thin Solid Films, 2016, 603, 56-61.	0.8	24
44	Organically linked iron oxide nanoparticle supercrystals with exceptional isotropic mechanicalÂproperties. Nature Materials, 2016, 15, 522-528.	13.3	140
45	Interaction of carboxylic acids with rutile TiO2(110): IR-investigations of terephthalic and benzoic acid adsorbed on a single crystal substrate. Surface Science, 2016, 643, 117-123.	0.8	39
46	The Interaction of Formic Acid with Zinc Oxide: A Combined Experimental and Theoretical Study on Single Crystal and Powder Samples. Topics in Catalysis, 2015, 58, 174-183.	1.3	32
47	Adsorption of Formic Acid on the Fe ₃ O ₄ (001) Surface. Journal of Physical Chemistry C, 2015, 119, 20459-20465.	1.5	42
48	lonic Liquid-Assisted Sonochemical Preparation of CeO ₂ Nanoparticles for CO Oxidation. ACS Sustainable Chemistry and Engineering, 2015, 3, 42-54.	3.2	55
49	Catalytic Behaviour of Mesoporous Cobalt-Aluminum Oxides for CO Oxidation. Journal of Catalysts, 2014, 2014, 1-9.	0.5	2
50	How Different Characterization Techniques Elucidate the Nature of the Gold Species in a Polycrystalline Au/TiO ₂ Catalyst. Chemie-Ingenieur-Technik, 2014, 86, 1883-1889.	0.4	2
51	Multifunctional, Defectâ€Engineered Metal–Organic Frameworks with Ruthenium Centers: Sorption and Catalytic Properties. Angewandte Chemie - International Edition, 2014, 53, 7058-7062.	7.2	237
52	TiO2 nanoparticles containing sulphonated cobalt phthalocyanine: Preparation, characterization and photocatalytic performance. Journal of Environmental Chemical Engineering, 2014, 2, 484-494.	3.3	33
53	Lowâ€Temperature Oxidation of Carbon Monoxide with Gold(III) Ions Supported on Titanium Oxide. Angewandte Chemie - International Edition, 2014, 53, 3245-3249.	7.2	46
54	Mild yet phase-selective preparation of TiO2 nanoparticles from ionic liquids – a critical study. Nanoscale, 2013, 5, 8045.	2.8	47

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55	A combined experimental and computational study on the adsorption and reactions of NO on rutile TiO ₂ . Physical Chemistry Chemical Physics, 2013, 15, 466-472.	1.3	21
56	CO Adsorption on a Mixed-Valence Ruthenium Metal–Organic Framework Studied by UHV-FTIR Spectroscopy and DFT Calculations. Journal of Physical Chemistry C, 2013, 117, 5658-5666.	1.5	48
57	Iron Metal–Organic Frameworks MILâ€88B and NH ₂ â€MILâ€88B for the Loading and Delivery of the Gasotransmitter Carbon Monoxide. Chemistry - A European Journal, 2013, 19, 6785-6790.	1.7	134
58	Vibrational spectroscopic studies on pure and metal overed metal oxide surfaces. Physica Status Solidi (B): Basic Research, 2013, 250, 1204-1221.	0.7	19
59	Coverageâ€Induced Hydrogen Transfer on ZnO Surfaces: From Ideal to Real Systems. Angewandte Chemie - International Edition, 2013, 52, 1977-1981.	7.2	16
60	Probing the Mechanism of Low-Temperature CO Oxidation on Au/ZnO Catalysts by Vibrational Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 11181-11188.	1.5	31
61	The Surface Science Approach for Understanding Reactions on Oxide Powders: The Importance of IR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 4731-4734.	7.2	68
62	Lowâ€Temperature CO Oxidation over Cuâ€Based Metal–Organic Frameworks Monitored by using FTIR Spectroscopy. ChemCatChem, 2012, 4, 755-759.	1.8	38
63	Dissociation of formic acid on anatase TiO2(101) probed by vibrational spectroscopy. Catalysis Today, 2012, 182, 12-15.	2.2	58
64	Rare-earth substituted HfO2 thin films grown by metalorganic chemical vapor deposition. Thin Solid Films, 2012, 520, 4512-4517.	0.8	9
65	Activation of Carbon Dioxide on ZnO Nanoparticles Studied by Vibrational Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 908-914.	1.5	79
66	Solvothermal growth of a ruthenium metal–organic framework featuring HKUST-1 structure type as thin films on oxide surfaces. Chemical Communications, 2011, 47, 8509.	2.2	118
67	ZnO@ZIF-8: stabilization of quantum confined ZnO nanoparticles by a zinc methylimidazolate framework and their surface structural characterization probed by CO2 adsorption. Journal of Materials Chemistry, 2011, 21, 5907.	6.7	101
68	Use of confocal fluorescence microscopy to compare different methods of modifying metal–organic framework (MOF) crystals with dyes. CrystEngComm, 2011, 13, 2828.	1.3	47
69	The interaction of carbon monoxide with clean and surface-modified zinc oxide nanoparticles: A UHV-FTIRS study. Applied Catalysis A: General, 2011, 391, 31-35.	2.2	33
70	Hydrogen Loading of Oxide Powder Particles: A Transmission IR Study for the Case of Zinc Oxide. ChemPhysChem, 2010, 11, 3604-3607.	1.0	40
71	The identification of hydroxyl groups on ZnO nanoparticles by infrared spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 7092.	1.3	320
72	Rapid determination of aluminum by UV–vis diffuse reflectance spectroscopy with application of suitable adsorbents. Talanta, 2006, 70, 933-939.	2.9	43

#	Article	IF	CITATIONS
73	DESY NanoLab. Journal of Large-scale Research Facilities JLSRF, 0, 2, A76.	0.0	68