

Christoph Rameshan

List of Publications by Year in descending order

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73
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185998

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times ranked

3268
citing authors

#	ARTICLE	IF	CITATIONS
1	AgAu nanoclusters supported on zeolites: Structural dynamics during CO oxidation. <i>Catalysis Today</i> , 2022, 384-386, 166-176.	2.2	13
2	Performance modulation through selective, homogenous surface doping of lanthanum strontium ferrite electrodes revealed by <i>in situ</i> PLD impedance measurements. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2973-2986.	5.2	6
3	CO Oxidation Capabilities of La- and Nd-Based Perovskites. <i>Fuels</i> , 2022, 3, 31-43.	1.3	3
4	The state of zinc in methanol synthesis over a Zn/ZnO/Cu(211) model catalyst. <i>Science</i> , 2022, 376, 603-608.	6.0	65
5	Interplay between CO Disproportionation and Oxidation: On the Origin of the CO Reaction Onset on Atomic Layer Deposition-Grown Pt/ZrO ₂ Model Catalysts. <i>ACS Catalysis</i> , 2021, 11, 208-214.	5.5	27
6	Hybrid carbon spherogels: carbon encapsulation of nano-titania. <i>Chemical Communications</i> , 2021, 57, 3905-3908.	2.2	7
7	Exsolution Catalysts—Increasing Metal Efficiency. <i>Encyclopedia</i> , 2021, 1, 249-260.	2.4	2
8	In situ XPS studies of MoS ₂ -based CO ₂ hydrogenation catalysts. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 324002.	1.3	22
9	Novel perovskite catalysts for CO ₂ utilization - Exsolution enhanced reverse water-gas shift activity. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120183.	10.8	26
10	Comparison of novel Ni doped exsolution perovskites as methane dry reforming catalysts. <i>E3S Web of Conferences</i> , 2021, 266, 02019.	0.2	2
11	In Situ Growth of Exsolved Nanoparticles under Varying rWGS Reaction Conditions—A Catalysis and Near Ambient Pressure-XPS Study. <i>Catalysts</i> , 2021, 11, 1484.	1.6	7
12	Dynamics of Pd Dopant Atoms inside Au Nanoclusters during Catalytic CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23626-23636.	1.5	28
13	Novel Sample-Stage for Combined Near Ambient Pressure X-ray Photoelectron Spectroscopy, Catalytic Characterization and Electrochemical Impedance Spectroscopy. <i>Crystals</i> , 2020, 10, 947.	1.0	20
14	Absorbance-based Spectroelectrochemical Sensor for Determination of Ampyra Based on Electrochemical Preconcentration. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128723.	4.0	14
15	Coverage-Induced Orientation Change: CO on Ir(111) Monitored by Polarization-Dependent Sum Frequency Generation Spectroscopy and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18102-18111.	1.5	9
16	An ultrahigh vacuum-compatible reaction cell for model catalysis under atmospheric pressure flow conditions. <i>Review of Scientific Instruments</i> , 2020, 91, 125101.	0.6	3
17	High Temperature Water Gas Shift Reactivity of Novel Perovskite Catalysts. <i>Catalysts</i> , 2020, 10, 582.	1.6	14
18	Modifying the Surface Structure of Perovskite-Based Catalysts by Nanoparticle Exsolution. <i>Catalysts</i> , 2020, 10, 268.	1.6	32

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19	Chemically Selective Imaging of Individual Bonds through Scanning Electron Energy-Loss Spectroscopy: Disulfide Bridges Linking Gold Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 796-799.	2.1	3
20	Ca-doped rare earth perovskite materials for tailored exsolution of metal nanoparticles. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 1055-1070.	0.5	15
21	Ligand and support effects on the reactivity and stability of Au ₃₈ (SR) ₂₄ catalysts in oxidation reactions. <i>Catalysis Communications</i> , 2019, 130, 105768.	1.6	13
22	A Non-Enzymatic Glucose Sensor Based on the Hybrid Thin Films of Cu on Acetanilide/ITO. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1116-B1125.	1.3	22
23	CO ₂ activation on ultrathin ZrO ₂ film by H ₂ O co-adsorption: In situ NAP-XPS and IRAS studies. <i>Surface Science</i> , 2019, 679, 139-146.	0.8	38
24	Support effect on the reactivity and stability of Au ₂₅ (SR) ₁₈ and Au ₁₄₄ (SR) ₆₀ nanoclusters in liquid phase cyclohexane oxidation. <i>Catalysis Today</i> , 2019, 336, 174-185.	2.2	33
25	Roughening of Copper (100) at Elevated CO Pressure: Cu Adatom and Cluster Formation Enable CO Dissociation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8112-8121.	1.5	30
26	Tailored exsolution of metal nanoparticles: structural and chemical characterisation of doped perovskites by XPS and XRD. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e314-e314.	0.0	0
27	Structural modification of perovskites by tailored exsolution for enhanced catalytic activity. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e322-e322.	0.0	0
28	Ice Nucleation Activity of Graphene and Graphene Oxides. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8182-8190.	1.5	29
29	Polarization-Dependent SFG Spectroscopy of Near Ambient Pressure CO Adsorption on Pt(111) and Pd(111) Revisited. <i>Topics in Catalysis</i> , 2018, 61, 751-762.	1.3	11
30	Atmospheric pressure reaction cell for operando sum frequency generation spectroscopy of ultrahigh vacuum grown model catalysts. <i>Review of Scientific Instruments</i> , 2018, 89, 045104.	0.6	17
31	Surface science approach to Pt/carbon model catalysts: XPS, STM and microreactor studies. <i>Applied Surface Science</i> , 2018, 440, 680-687.	3.1	47
32	Vibrational fingerprint of localized excitons in a two-dimensional metal-organic crystal. <i>Nature Communications</i> , 2018, 9, 4703.	5.8	18
33	Ligand Migration from Cluster to Support: A Crucial Factor for Catalysis by Thiolate-protected Gold Clusters. <i>ChemCatChem</i> , 2018, 10, 5341-5341.	1.8	0
34	The Chemical Evolution of the La _{0.6} Sr _{0.4} CoO ₃ Surface Under SOFC Operating Conditions and Its Implications for Electrochemical Oxygen Exchange Activity. <i>Topics in Catalysis</i> , 2018, 61, 2129-2141.	1.3	65
35	Ligand Migration from Cluster to Support: A Crucial Factor for Catalysis by Thiolate-protected Gold Clusters. <i>ChemCatChem</i> , 2018, 10, 5372-5376.	1.8	44
36	<i>In situ</i> NAP-XPS spectroscopy during methane dry reforming on ZrO ₂ /Pt(111) inverse model catalyst. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 264007.	0.7	32

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37	Impregnated and Co-precipitated Pd ²⁺ Ga ₂ O ₃ , Pd ²⁺ In ₂ O ₃ and Pd ²⁺ Ga ₂ O ₃ â€“In ₂ O ₃ Catalysts: Influence of the Microstructure on the CO ₂ Selectivity in Methanol Steam Reforming. <i>Catalysis Letters</i> , 2018, 148, 3062-3071.	1.4	21
38	Novel visible-light-sensitized Chl-Mg/P25 catalysts for photocatalytic degradation of rhodamine B. <i>Applied Catalysis B: Environmental</i> , 2017, 207, 326-334.	10.8	43
39	Synthesis and Properties of Monolayer-Protected Co _x (SC ₂ H ₄ Ph) _m Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10948-10956.	1.5	14
40	Surface Chemistry of Perovskite-Type Electrodes During High Temperature CO ₂ Electrolysis Investigated by <i>Operando</i> Photoelectron Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35847-35860.	4.0	107
41	Aerosol-assisted CVD of thioether-functionalised indium aminoalkoxides. <i>Monatshefte FÃ¼r Chemie</i> , 2017, 148, 1385-1392.	0.9	4
42	CO Adsorption on Reconstructed Ir(100) Surfaces from UHV to mbar Pressure: A LEED, TPD, and PM-IRAS Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10838-10848.	1.5	25
43	<i>Operando</i> XAS and NAP-XPS studies of preferential CO oxidation on Co ₃ O ₄ and CeO ₂ -Co ₃ O ₄ catalysts. <i>Journal of Catalysis</i> , 2016, 344, 1-15.	3.1	126
44	Surface Spectroscopy on UHV-Grown and Technological Ni ²⁺ ZrO ₂ Reforming Catalysts: From UHV to <i>Operando</i> Conditions. <i>Topics in Catalysis</i> , 2016, 59, 1614-1627.	1.3	16
45	Thioether functionalised gallium and indium alkoxides in materials synthesis. <i>New Journal of Chemistry</i> , 2016, 40, 6962-6969.	1.4	5
46	Ambient Pressure XPS Study of Mixed Conducting Perovskite-Type SOFC Cathode and Anode Materials under Well-Defined Electrochemical Polarization. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1461-1471.	1.5	132
47	Enhancing Electrochemical Water-Splitting Kinetics by Polarization-Driven Formation of Near-Surface Iron(0): An <i>In situ</i> XPS Study on Perovskite-Type Electrodes. <i>Angewandte Chemie</i> , 2015, 127, 2666-2670.	1.6	12
48	Frontispiz: Enhancing Electrochemical Water-Splitting Kinetics by Polarization-Driven Formation of Near-Surface Iron(0): An <i>In situ</i> XPS Study on Perovskite-Type Electrodes. <i>Angewandte Chemie</i> , 2015, 127, n/a-n/a.	1.6	0
49	Aqueous solution/metal interfaces investigated in <i>operando</i> by photoelectron spectroscopy. <i>Faraday Discussions</i> , 2015, 180, 35-53.	1.6	99
50	Water adsorption on polycrystalline vanadium from ultra-high vacuum to ambient relative humidity. <i>Surface Science</i> , 2015, 641, 141-147.	0.8	16
51	Frontispiece: Enhancing Electrochemical Water-Splitting Kinetics by Polarization-Driven Formation of Near-Surface Iron(0): An <i>In situ</i> XPS Study on Perovskite-Type Electrodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, n/a-n/a.	7.2	0
52	Growth of an Ultrathin Zirconia Film on Pt ₃ Zr Examined by High-Resolution X-ray Photoelectron Spectroscopy, Temperature-Programmed Desorption, Scanning Tunneling Microscopy, and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2462-2470.	1.5	46
53	Enhancing Electrochemical Water-Splitting Kinetics by Polarization-Driven Formation of Near-Surface Iron(0): An <i>In situ</i> XPS Study on Perovskite-Type Electrodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2628-2632.	7.2	110
54	Reversible Modification of the Structural and Electronic Properties of a Boron Nitride Monolayer by CO Intercalation. <i>ChemPhysChem</i> , 2015, 16, 923-927.	1.0	18

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55	Water Splitting on Model-Composite $\text{La}_{0.6}\text{Sr}_{0.4}\text{FeO}_{3-\delta}$ (LSF) Electrodes in $\text{H}_2/\text{H}_2\text{O}$ Atmosphere. ECS Transactions, 2015, 68, 3333-3343.	0.3	4
56	Combined UHV/high-pressure catalysis setup for depth-resolved near-surface spectroscopic characterization and catalytic testing of model catalysts. Review of Scientific Instruments, 2014, 85, 055104.	0.6	15
57	PdZn Surface Alloys as Models of Methanol Steam Reforming Catalysts: Molecular Studies by LEED, XPS, TPD and PM-IRAS. Topics in Catalysis, 2014, 57, 1218-1228.	1.3	13
58	From Oxide-Supported Palladium to Intermetallic Palladium Phases: Consequences for Methanol Steam Reforming. ChemCatChem, 2013, 5, 1273-1285.	1.8	41
59	CO_2 -selective methanol steam reforming on In-doped Pd studied by in situ X-ray photoelectron spectroscopy. Journal of Catalysis, 2012, 295, 186-194.	3.1	53
60	Hydrogen Production by Methanol Steam Reforming on Copper Boosted by Zinc-Assisted Water Activation. Angewandte Chemie - International Edition, 2012, 51, 3002-3006.	7.2	79
61	How to Control the Selectivity of Palladium-based Catalysts in Hydrogenation Reactions: The Role of Subsurface Chemistry. ChemCatChem, 2012, 4, 1048-1063.	1.8	223
62	In situ XPS study of methanol reforming on PdGa near-surface intermetallic phases. Journal of Catalysis, 2012, 290, 126-137.	3.1	48
63	Surface-assisted laser desorption/ionization-mass spectrometry using TiO_2 -coated steel targets for the analysis of small molecules. Analytical and Bioanalytical Chemistry, 2011, 401, 1963-1974.	1.9	41
64	Preparation and structural characterization of SnO_2 and GeO_2 methanol steam reforming thin film model catalysts by (HR)TEM. Materials Chemistry and Physics, 2010, 122, 623-629.	2.0	25
65	Steam reforming of methanol on PdZn near-surface alloys on Pd(1 1 1) and Pd foil studied by in-situ XPS, LEIS and PM-IRAS. Journal of Catalysis, 2010, 276, 101-113.	3.1	68
66	Subsurface-Controlled CO_2 Selectivity of PdZn Near-Surface Alloys in H_2 Generation by Methanol Steam Reforming. Angewandte Chemie - International Edition, 2010, 49, 3224-3227.	7.2	144
67	Pd-In $_2\text{O}_3$ interaction due to reduction in hydrogen: Consequences for methanol steam reforming. Applied Catalysis A: General, 2010, 374, 180-188.	2.2	82
68	Origin of different deactivation of Pd/ SnO_2 and Pd/ GeO_2 catalysts in methanol dehydrogenation and reforming: A comparative study. Applied Catalysis A: General, 2010, 381, 242-252.	2.2	24
69	Catalytic characterization of pure SnO_2 and GeO_2 in methanol steam reforming. Applied Catalysis A: General, 2010, 375, 188-195.	2.2	23
70	Temperature-Induced Modifications of PdZn Layers on Pd(111). Journal of Physical Chemistry C, 2010, 114, 10850-10856.	1.5	46
71	Pd/ Ga_2O_3 methanol steam reforming catalysts: Part I. Morphology, composition and structural aspects. Applied Catalysis A: General, 2009, 358, 193-202.	2.2	71
72	Pd/ Ga_2O_3 methanol steam reforming catalysts: Part II. Catalytic selectivity. Applied Catalysis A: General, 2009, 358, 203-210.	2.2	51

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73	How Greenhouse Gases Can Be Used to Store Energy. <i>Frontiers for Young Minds</i> , 0, 8, .	0.8	0