

Vassiliki-Alexandra Glezakou

List of Publications by Year in descending order

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122
papers

4,877
citations

87843

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130
all docs

130
docs citations

130
times ranked

5858
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic formation of single-atom catalytic active sites on ceria-supported gold nanoparticles. <i>Nature Communications</i> , 2015, 6, 6511.	5.8	370
2	The Role of Reducible Oxideâ€Metal Cluster Charge Transfer in Catalytic Processes: New Insights on the Catalytic Mechanism of CO Oxidation on Au/TiO ₂ from ab Initio Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2013, 135, 10673-10683.	6.6	308
3	Water-Lean Solvents for Post-Combustion CO ₂ Capture: Fundamentals, Uncertainties, Opportunities, and Outlook. <i>Chemical Reviews</i> , 2017, 117, 9594-9624.	23.0	249
4	Electrocatalytic Hydrogenation of Biomass-Derived Organics: A Review. <i>Chemical Reviews</i> , 2020, 120, 11370-11419.	23.0	185
5	Ethanol synthesis from syngas over Rh-based/SiO ₂ catalysts: A combined experimental and theoretical modeling study. <i>Journal of Catalysis</i> , 2010, 271, 325-342.	3.1	174
6	CO Oxidation on Au/TiO ₂ : Condition-Dependent Active Sites and Mechanistic Pathways. <i>Journal of the American Chemical Society</i> , 2016, 138, 10467-10476.	6.6	159
7	Genesis and Stability of Hydronium Ions in Zeolite Channels. <i>Journal of the American Chemical Society</i> , 2019, 141, 3444-3455.	6.6	119
8	Molecular Simulation Analysis and X-ray Absorption Measurement of Ca ²⁺ , K ⁺ and Cl ⁻ Ions in Solution. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23644-23654.	1.2	115
9	Highly active and stable MgAl ₂ O ₄ -supported Rh and Ir catalysts for methane steam reforming: A combined experimental and theoretical study. <i>Journal of Catalysis</i> , 2014, 316, 11-23.	3.1	104
10	Competitive sorption of CO ₂ and H ₂ O in 2:1 layer phyllosilicates. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 161, 248-257.	1.6	98
11	Probing equilibrium of molecular and deprotonated water on TiO ₂ (110). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1801-1805.	3.3	90
12	Confinement effects and acid strength in zeolites. <i>Nature Communications</i> , 2021, 12, 2630.	5.8	90
13	Theoretical insights into the surface physics and chemistry of redox-active oxides. <i>Nature Reviews Materials</i> , 2020, 5, 460-475.	23.3	89
14	Understanding the Role of Metal and Molecular Structure on the Electrocatalytic Hydrogenation of Oxygenated Organic Compounds. <i>ACS Catalysis</i> , 2019, 9, 9964-9972.	5.5	81
15	Carboxyl intermediate formation via an in situ-generated metastable active site during water-gas shift catalysis. <i>Nature Catalysis</i> , 2019, 2, 916-924.	16.1	79
16	Anharmonicity and Confinement in Zeolites: Structure, Spectroscopy, and Adsorption Free Energy of Ethanol in H-ZSM-5. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7172-7182.	1.5	77
17	A Combined Experimental and Theoretical Study on the Activity and Selectivity of the Electrocatalytic Hydrogenation of Aldehydes. <i>ACS Catalysis</i> , 2018, 8, 7645-7658.	5.5	76
18	Electronic structure, statistical mechanical simulations, and EXAFS spectroscopy of aqueous potassium. <i>Theoretical Chemistry Accounts</i> , 2006, 115, 86-99.	0.5	63

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19	Understanding Heterolytic H ₂ Cleavage and Water-Assisted Hydrogen Spillover on Fe ₃ O ₄ (001)-Supported Single Palladium Atoms. ACS Catalysis, 2019, 9, 7876-7887.	5.5	63
20	Effect of Collective Dynamics and Anharmonicity on Entropy in Heterogenous Catalysis: Building the Case for Advanced Molecular Simulations. ACS Catalysis, 2020, 10, 9236-9260.	5.5	63
21	The Nature of Hydrogen Adsorption on Platinum in the Aqueous Phase. Angewandte Chemie - International Edition, 2019, 58, 3527-3532.	7.2	62
22	Structure and Dynamics of CO ₂ on Rutile TiO ₂ (110)-1. Journal of Physical Chemistry C, 2012, 116, 26322-26334.	1.5	60
23	Spontaneous Activation of CO ₂ and Possible Corrosion Pathways on the Low-Index Iron Surface Fe(100). Journal of Physical Chemistry C, 2009, 113, 3691-3696.	1.5	58
24	Impact of pH on Aqueous-Phase Phenol Hydrogenation Catalyzed by Carbon-Supported Pt and Rh. ACS Catalysis, 2019, 9, 1120-1128.	5.5	55
25	Environment of Metal-O-Fe Bonds Enabling High Activity in CO ₂ Reduction on Single Metal Atoms and on Supported Nanoparticles. Journal of the American Chemical Society, 2021, 143, 5540-5549.	6.6	54
26	Electrochemically Tunable Proton-Coupled Electron Transfer in Pd-Catalyzed Benzaldehyde Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 1501-1505.	7.2	53
27	General Protocol for the Accurate Prediction of Molecular ¹³ C/ ¹ H NMR Chemical Shifts via Machine Learning Augmented DFT. Journal of Chemical Information and Modeling, 2020, 60, 3746-3754.	2.5	53
28	Microstructural Response of Variably Hydrated Ca-rich Montmorillonite to Supercritical CO ₂ . Environmental Science & Technology, 2014, 48, 8612-8619.	4.6	52
29	Structure, dynamics and vibrational spectrum of supercritical CO ₂ /H ₂ O mixtures from ab initio molecular dynamics as a function of water cluster formation. Physical Chemistry Chemical Physics, 2010, 12, 8759.	1.3	51
30	Low-Temperature Oxidation of Methanol to Formaldehyde on a Model Single-Atom Catalyst: Pd Atoms on Fe ₃ O ₄ (001). ACS Catalysis, 2019, 9, 10977-10982.	5.5	50
31	Carbon-supported Pt during aqueous phenol hydrogenation with and without applied electrical potential: X-ray absorption and theoretical studies of structure and adsorbates. Journal of Catalysis, 2018, 368, 8-19.	3.1	49
32	Acid/base equilibria in clusters and their role in proton exchange membranes: computational insight. Physical Chemistry Chemical Physics, 2007, 9, 5752.	1.3	48
33	Dimerization Induced Deprotonation of Water on RuO ₂ (110). Journal of Physical Chemistry Letters, 2014, 5, 3445-3450.	2.1	47
34	Structural Rearrangement of Au-Pd Nanoparticles under Reaction Conditions: An <i>ab Initio</i> Molecular Dynamics Study. ACS Nano, 2017, 11, 1649-1658.	7.3	47
35	NWPEsSe: An Adaptive-Learning Global Optimization Algorithm for Nanosized Cluster Systems. Journal of Chemical Theory and Computation, 2020, 16, 3947-3958.	2.3	47
36	Steam reforming of hydrocarbons from biomass-derived syngas over MgAl ₂ O ₄ -supported transition metals and bimetallic IrNi catalysts. Applied Catalysis B: Environmental, 2016, 184, 142-152.	10.8	46

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37	Norm-Conserving Pseudopotentials and Basis Sets To Explore Lanthanide Chemistry in Complex Environments. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5987-5997.	2.3	46
38	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 290-296.	7.2	40
39	Comparative Investigation of Benzene Steam Reforming over Spinel Supported Rh and Ir Catalysts. <i>ACS Catalysis</i> , 2013, 3, 1133-1143.	5.5	39
40	Directed Hydrogen Bond Placement: Low Viscosity Amine Solvents for CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7535-7542.	3.2	34
41	Single-Step Conversion of Ethanol to <i>n</i> -Butene over Ag-ZrO ₂ /SiO ₂ Catalysts. <i>ACS Catalysis</i> , 2020, 10, 10602-10613.	5.5	34
42	Progress and challenges in self-healing cementitious materials. <i>Journal of Materials Science</i> , 2021, 56, 201-230.	1.7	34
43	Surface Density Dependent Catalytic Activity of Single Palladium Atoms Supported on Ceria**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22769-22775.	7.2	34
44	Formation Mechanism of the Secondary Building Unit in a Chromium Terephthalate Metal-Organic Framework. <i>Chemistry of Materials</i> , 2014, 26, 6401-6409.	3.2	33
45	Deprotonated Water Dimers: The Building Blocks of Segmented Water Chains on Rutile RuO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2015, 119, 23552-23558.	1.5	33
46	Dynamic Acid/Base Equilibrium in Single Component Switchable Ionic Liquids and Consequences on Viscosity. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1646-1652.	2.1	33
47	Coordination Sphere of Lanthanide Aqua Ions Resolved with Ab Initio Molecular Dynamics and X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2021, 60, 3117-3130.	1.9	33
48	Cluster-Models for Uranyl(VI) Adsorption on γ -Alumina. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1257-1263.	1.1	32
49	Reconciling Work Functions and Adsorption Enthalpies for Implicit Solvent Models: A Pt (111)/Water Interface Case Study. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2703-2715.	2.3	32
50	Analysis of Bonding Patterns in the Valence Isoelectronic Series O ₃ , S ₃ , SO ₂ , and OS ₂ in Terms of Oriented Quasi-Atomic Molecular Orbitals ^{sup} . <i>Journal of Physical Chemistry A</i> , 2010, 114, 8923-8931.	1.1	31
51	Global optimization of chemical cluster structures: Methods, applications, and challenges. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26553.	1.0	31
52	Systematic location of intersecting seams of conical intersection in triatomic molecules: The 1 σ _g ² 2 σ _g ² conical intersections in BH ₂ . <i>Journal of Chemical Physics</i> , 1998, 108, 5657-5659.	1.2	30
53	Molecular interactions of SO ₂ with carbonate minerals under co-sequestration conditions: A combined experimental and theoretical study. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 265-274.	1.6	30
54	<i>Ab initio</i> molecular dynamics with enhanced sampling in heterogeneous catalysis. <i>Catalysis Science and Technology</i> , 2022, 12, 12-37.	2.1	29

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55	Polymer-Cement Composites with Self-Healing Ability for Geothermal and Fossil Energy Applications. <i>Chemistry of Materials</i> , 2017, 29, 4708-4718.	3.2	28
56	Structure, dynamics and stability of water/scCO ₂ /mineral interfaces from ab initio molecular dynamics simulations. <i>Scientific Reports</i> , 2015, 5, 14857.	1.6	26
57	Reinventing Design Principles for Developing Low-Viscosity Carbon Dioxide-Binding Organic Liquids for Flue Gas Clean Up. <i>ChemSusChem</i> , 2017, 10, 636-642.	3.6	26
58	Molecular Level Investigation of CH ₄ and CO ₂ Adsorption in Hydrated Calcium-Montmorillonite. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1125-1134.	1.5	26
59	Raman spectrum of supercritical C ¹⁸ O ₂ and re-evaluation of the Fermi resonance. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2560-2566.	1.3	25
60	Atomic Origins of the Self-Healing Function in Cement-Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3011-3019.	4.0	23
61	Molecular Level Understanding of the Free Energy Landscape in Early Stages of Metal-Organic Framework Nucleation. <i>Journal of the American Chemical Society</i> , 2019, 141, 6073-6081.	6.6	23
62	Ab initio molecular dynamics assessment of thermodynamic and transport properties in (K,Li)Cl and (K, Tj) ETQq0 0,0 rgBT /Overlock 10	2.3	23
63	Insights into the physical and chemical properties of a cement-polymer composite developed for geothermal wellbore applications. <i>Cement and Concrete Composites</i> , 2019, 97, 279-287.	4.6	22
64	Influence of Ag metal dispersion on the thermal conversion of ethanol to butadiene over Ag-ZrO ₂ /SiO ₂ catalysts. <i>Journal of Catalysis</i> , 2020, 386, 30-38.	3.1	22
65	Low-Frequency Raman Spectroscopy of n-Alcohols. <i>LAM Vibration and Crystal Structure. Journal of Physical Chemistry B</i> , 2002, 106, 4405-4411.	1.2	21
66	Activity of Cu-Al-Oxo Extra-Framework Clusters for Selective Methane Oxidation on Cu-Exchanged Zeolites. <i>Jacs Au</i> , 2021, 1, 1412-1421.	3.6	21
67	Structure-property reduced order model for viscosity prediction in single-component CO ₂ -binding organic liquids. <i>Green Chemistry</i> , 2016, 18, 6004-6011.	4.6	20
68	Chemical transformations of captured CO ₂ into cyclic and polymeric carbonates. <i>Journal of CO₂ Utilization</i> , 2019, 32, 196-201.	3.3	20
69	Shedding light on black titania. <i>Nature Materials</i> , 2018, 17, 856-857.	13.3	19
70	Mesoscopic Structure Facilitates Rapid CO ₂ Transport and Reactivity in CO ₂ Capture Solvents. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5765-5771.	2.1	19
71	Norm-Conserving Pseudopotentials and Basis Sets to Explore Actinide Chemistry in Complex Environments. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3360-3371.	2.3	19
72	Actinide Molten Salts: A Machine-Learning Potential Molecular Dynamics Study. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53398-53408.	4.0	19

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73	Understanding Metal-Organic Framework Nucleation from a Solution with Evolving Graphs. Journal of the American Chemical Society, 2022, 144, 11099-11109.	6.6	19
74	Are Water-lean Solvent Systems Viable for Post-Combustion CO ₂ Capture?. Energy Procedia, 2017, 114, 756-763.	1.8	18
75	Electrochemically Tunable Proton-Coupled Electron Transfer in Pd-Catalyzed Benzaldehyde Hydrogenation. Angewandte Chemie, 2020, 132, 1517-1521.	1.6	18
76	Diffusion and Surface Segregation of Interstitial Ti Defects Induced by Electronic Metal-Support Interactions on a Au/TiO ₂ Nanocatalyst. ACS Catalysis, 2022, 12, 4455-4464.	5.5	17
77	Impact of Nonadiabatic Charge Transfer on the Rate of Redox Chemistry of Carbon Oxides on Rutile TiO ₂ (110) Surface. ACS Catalysis, 2015, 5, 1764-1771.	5.5	16
78	Molecular-Level Overhaul of ³ Aminopropyl Aminosilicone/Triethylene Glycol Post-Combustion CO ₂ -Capture Solvents. ChemSusChem, 2020, 13, 3429-3438.	3.6	16
79	Phase-Change Aminopyridines as Carbon Dioxide Capture Solvents. Industrial & Engineering Chemistry Research, 2017, 56, 7534-7540.	1.8	14
80	Formation of Supported Graphene Oxide: Evidence for Enolate Species. Journal of the American Chemical Society, 2018, 140, 5102-5109.	6.6	14
81	The Role of Ir in Ternary Rh-Based Catalysts for Syngas Conversion to C ₂ + Oxygenates. Topics in Catalysis, 2012, 55, 595-600.	1.3	13
82	Electro-reduction of organics on metal cathodes: A multiscale-modeling study of benzaldehyde on Au (111). Catalysis Today, 2020, 350, 39-46.	2.2	13
83	Heterogeneous catalysis in complex, condensed reaction media. Catalysis Today, 2017, 289, 231-236.	2.2	12
84	Structure and Stability of the Ionic Liquid Clusters [EMIM] _n [BF ₄] _{n+1} ⁺ (n = 1-9): Implications for Electrochemical Separations. Journal of Physical Chemistry Letters, 2020, 11, 6844-6851.	2.1	12
85	First-principle investigation on catalytic hydrogenation of benzaldehyde over Pt-group metals. Catalysis Today, 2022, 388-389, 208-215.	2.2	12
86	Selective acetylene hydrogenation over single metal atoms supported on Fe ₃ O ₄ (001): A first-principle study. Journal of Chemical Physics, 2020, 152, 154703.	1.2	12
87	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. Angewandte Chemie, 2021, 133, 294-300.	1.6	12
88	Dynamics, Stability, and Adsorption States of Water on Oxidized RuO ₂ (110). Journal of Physical Chemistry C, 2017, 121, 18505-18515.	1.5	11
89	How Collective Phenomena Impact CO ₂ Reactivity and Speciation in Different Media. Journal of Physical Chemistry A, 2020, 124, 3963-3975.	1.1	11
90	Integrated Solvent Design for CO ₂ Capture and Viscosity Tuning. Energy Procedia, 2017, 114, 726-734.	1.8	10

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91	Creating self-assembled arrays of mono-oxo (MoO ₃) ₁ species on TiO ₂ (101) via deposition and decomposition of (MoO ₃) _n oligomers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	10
92	Light Makes a Surface Banana-Bond Split: Photodesorption of Molecular Hydrogen from RuO ₂ (110). Journal of the American Chemical Society, 2016, 138, 8714-8717.	6.6	9
93	Polymer-cement composites with adhesion and re-adhesion (healing) to casing capability for geothermal wellbore applications. Cement and Concrete Composites, 2020, 107, 103490.	4.6	9
94	Graphene Oxide as a Pb(II) Separation Medium: Has Part of the Story Been Overlooked?. JACS Au, 2021, 1, 766-776.	3.6	9
95	Mechanistic Understanding of Catalytic Conversion of Ethanol to 1-Butene over 2D-Pillared MFI Zeolite. Journal of Physical Chemistry C, 2020, 124, 28437-28447.	1.5	9
96	Structure, Bonding, and Heats of Formation of Silatitanacyclobutanes. Journal of Physical Chemistry A, 1997, 101, 8714-8719.	1.1	8
97	On the Role of Enthalpic and Entropic Contributions to the Conformational Free Energy Landscape of MIL-101(Cr) Secondary Building Units. Advanced Theory and Simulations, 2020, 3, 2000092.	1.3	7
98	Understanding Adsorption of Organics on Pt(111) in the Aqueous Phase: Insights from DFT Based Implicit Solvent and Statistical Thermodynamics Models. Journal of Chemical Theory and Computation, 2022, 18, 1849-1861.	2.3	7
99	Mechanism of methanol synthesis on Ni(110). Catalysis Science and Technology, 2021, 11, 3279-3294.	2.1	6
100	Tuning the Charge and Hydrophobicity of Graphene Oxide Membranes by Functionalization with Ionic Liquids at Epoxide Sites. ACS Applied Materials & Interfaces, 2022, 14, 19031-19042.	4.0	6
101	Structure and Thermodynamics of Carbon and Carbon/Silicon Precursors to Nanostructures. Journal of the American Chemical Society, 2002, 124, 6144-6152.	6.6	5
102	Ligand control of low-frequency electron paramagnetic resonance linewidth in Cr(III) complexes. Dalton Transactions, 2021, 50, 5342-5350.	1.6	5
103	Impact of functional groups on the electrocatalytic hydrogenation of aromatic carbonyls to alcohols. Catalysis Today, 2022, 397-399, 63-68.	2.2	5
104	Functionalization of Electrodes with Tunable [EMIM] _x [Cl] _{x+1} ⁺ Ionic Liquid Clusters for Electrochemical Separations. Chemistry of Materials, 2022, 34, 2612-2623.	3.2	5
105	Impact of Cr and Co on ⁹⁹ Tc retention in magnetite: A combined study of ab initio molecular dynamics and experiments. Journal of Hazardous Materials, 2020, 387, 121721.	6.5	3
106	Subtle changes in hydrogen bond orientation result in classification of carbon capture solvents. Physical Chemistry Chemical Physics, 2020, 22, 19009-19021.	1.3	3
107	Molecular dynamics simulations of a hydrophilic MIL-160-based membrane demonstrate pressure-dependent selective uptake of industrially relevant greenhouse gases. Materials Advances, 2021, 2, 5922-5934.	2.6	3
108	Binding and stability of MgO monomers on anatase TiO ₂ (101). Journal of Chemical Physics, 2021, 154, 204703.	1.2	3

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109	Use of Solvatochromism to Assay Preferential Solvation of a Prototypic Catalytic Site. Topics in Catalysis, 2015, 58, 258-270.	1.3	2
110	Trends in Homolytic Bond Dissociation Energies of Five- and Six-Coordinate Hydrides of Group 9 Transition Metals: Co, Rh, Ir. Journal of Physical Chemistry A, 2017, 121, 1993-2000.	1.1	2
111	Molecular Simulation of the Catalytic Regeneration of $n\text{-BuLi}$ through a Hydrometalation Route. Inorganic Chemistry, 2019, 58, 3033-3040.	1.9	2
112	The Nature of Hydrogen Adsorption on Platinum in the Aqueous Phase. Angewandte Chemie, 2019, 131, 3565-3570.	1.6	2
113	The role of sub-surface hydrogen on CO ₂ reduction and dynamics on Ni(110): An <i>ab initio</i> molecular dynamics study. Journal of Chemical Physics, 2021, 155, 044702.	1.2	2
114	Advanced Theory and Simulation to Guide the Development of CO ₂ Capture Solvents. ACS Omega, 2022, 7, 12453-12466.	1.6	2
115	Properties of polyvinylchloride in solution: an hydrodynamic and vibrational spectroscopy study. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 1351-1356.	2.4	1
116	Density Functional Simulations as a Tool To Probe Molecular Interactions in Wet Supercritical CO ₂ . ACS Symposium Series, 2013, , 31-49.	0.5	1
117	Single-Atom Catalysis: An Analogy between Heterogeneous and Homogeneous Catalysts. ACS Symposium Series, 2020, , 1-15.	0.5	1
118	AMPHIPHILIC WATER-CLEAN CARBON CAPTURE SOLVENT WETTING BEHAVIOR VIA DECOMPOSITION BY STAINLESS-STEEL INTERFACES. ChemSusChem, 2021, 14, 5283-5292.	3.6	1
119	Computational and Experimental Study for the Denitrification of Biomass-Derived Hydrothermal Liquefaction Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 13406-13413.	3.2	1
120	Surface Density Dependent Catalytic Activity of Single Palladium Atoms Supported on Ceria**. Angewandte Chemie, 2021, 133, 22951.	1.6	0
121	Determining the Adsorption Energetics of 2,3-Butanediol on RuO ₂ (110): Coupling First-Principles Calculations With Global Optimizers. Frontiers in Energy Research, 2022, 9, .	1.2	0
122	Tailored Computational Approaches to Interrogate Heavy Element Chemistry and Structure in Condensed Phase. ACS Symposium Series, 0, , 219-245.	0.5	0