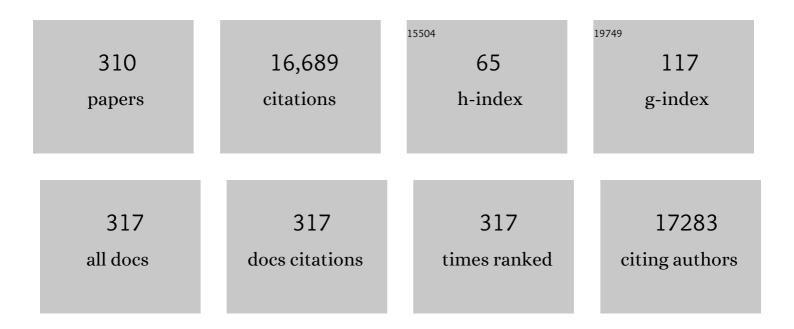
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Solvent Degradation and Polymerization in the Li-Metal Battery: Organic-Phase Formation in Solid-Electrolyte Interphases. ACS Applied Materials & amp; Interfaces, 2022, 14, 2817-2824.	8.0	23
2	Unveiling the interaction of reactions and phase transition during thermal abuse of Li-ion batteries. Journal of Power Sources, 2022, 522, 230881.	7.8	24
3	Hydrogen evolution reaction mechanism on Ti ₃ C ₂ MXene revealed by <i>in situ</i> /operando Raman spectroelectrochemistry. Nanoscale, 2022, 14, 5068-5078.	5.6	20
4	Phthalocyanine as catalyst for rechargeable lithium-oxygen batteries. Journal of Porphyrins and Phthalocyanines, 2022, 26, 308-315.	0.8	1
5	Theoretical and experimental study of the effects of cobalt and nickel doping within IrO2 on the acidic oxygen evolution reaction. Journal of Catalysis, 2022, 408, 64-80.	6.2	10
6	Ion mobility and solvation complexes at liquid–solid interfaces in dilute, high concentration, and localized high concentration electrolytes. Materials Advances, 2022, 3, 6352-6363.	5.4	6
7	(Digital Presentation) Investigating the Origin of the Large HER Overpotential of Ti ₃ C ₂ Using in-Situ/Operando Raman Spectroelectrochemistry. ECS Meeting Abstracts, 2022, MA2022-01, 2053-2053.	0.0	0
8	(Digital Presentation) Elucidating the Charge Storage Mechanism on Ti ₃ C ₂ MXene through in-Situ/Operando Raman Spectroelectrochemistry. ECS Meeting Abstracts, 2022, MA2022-01, 114-114.	0.0	0
9	Polysulfide reduction and Li2S phase formation in the presence of lithium metal and solid electrolyte interphase layer. Journal of Power Sources, 2021, 485, 229289.	7.8	9
10	Solvation <i>vs.</i> surface charge transfer: an interfacial chemistry game drives cation motion. Chemical Communications, 2021, 57, 6189-6192.	4.1	12
11	Influence of diluent concentration in localized high concentration electrolytes: elucidation of hidden diluent-Li ⁺ interactions and Li ⁺ transport mechanism. Journal of Materials Chemistry A, 2021, 9, 17459-17473.	10.3	28
12	Strategies towards enabling lithium metal in batteries: interphases and electrodes. Energy and Environmental Science, 2021, 14, 5289-5314.	30.8	156
13	A solid electrolyte interphase to protect the sulfurized polyacrylonitrile (SPAN) composite for Li–S batteries: computational approach addressing the electrolyte/SPAN interfacial reactivity. Journal of Materials Chemistry A, 2021, 9, 7888-7902.	10.3	9
14	Localized high concentration electrolytes decomposition under electron-rich environments. Journal of Chemical Physics, 2021, 154, 104702.	3.0	11
15	(Invited) Role of the Electrolyte on Li Cation Electrodeposition and Intercalation. ECS Meeting Abstracts, 2021, MA2021-01, 174-174.	0.0	0
16	Nucleation and Growth of Solid Electrolyte Interphase on Lithium Metal Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 449-449.	0.0	0
17	Sulfurized Polyacrylonitrile (SPAN): Changes in Mechanical Properties during Electrochemical Lithiation. Journal of Physical Chemistry C, 2021, 125, 13185-13194.	3.1	5
18	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilic–Zincophobic Interfacial Layers and Interrupted Hydrogenâ€Bond Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 18845-18851.	13.8	150

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19	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilic–Zincophobic Interfacial Layers and Interrupted Hydrogenâ€Bond Electrolytes. Angewandte Chemie, 2021, 133, 18993-18999.	2.0	11
20	Surface microenvironment engineering of black V2O5 nanostructures for visible light photodegradation of methylene blue. Journal of Alloys and Compounds, 2021, 871, 159615.	5.5	26
21	The passivity of lithium electrodes in liquid electrolytes for secondary batteries. Nature Reviews Materials, 2021, 6, 1036-1052.	48.7	201
22	Liquid state properties of SEI components in dimethoxyethane. Journal of Chemical Physics, 2021, 155, 124701.	3.0	1
23	Enhancing Hydrogen Evolution Activity of Monolayer Molybdenum Disulfide via a Molecular Proton Mediator. ACS Catalysis, 2021, 11, 12159-12169.	11.2	19
24	Localized High Concentration Electrolyte and Its Effects on Polysulfide Structure in Solution. Journal of Physical Chemistry C, 2021, 125, 20157-20170.	3.1	16
25	Role of Polysulfide Anions in Solid-Electrolyte Interphase Formation at the Lithium Metal Surface in Li–S Batteries. Journal of Physical Chemistry Letters, 2021, 12, 9360-9367.	4.6	13
26	On the role of surface oxygen during nascent single-walled carbon nanotube cap spreading and tube nucleation on iron catalysts. Carbon, 2021, 184, 470-478.	10.3	6
27	Combined density functional theory/kinetic Monte Carlo investigation of surface morphology during cycling of Li-Cu electrodes. Electrochimica Acta, 2021, 397, 139272.	5.2	3
28	Large areal capacity and dendrite-free anodes with long lifetime enabled by distributed lithium plating with mossy manganese oxides. Journal of Materials Chemistry A, 2021, 9, 9291-9300.	10.3	6
29	Sulfurized Polyacrylonitrile for High-Performance Lithium–Sulfur Batteries: In-Depth Computational Approach Revealing Multiple Sulfur's Reduction Pathways and Hidden Li ⁺ Storage Mechanisms for Extra Discharge Capacity. ACS Applied Materials & Interfaces, 2021, 13, 491-502.	8.0	16
30	Understanding Solid Electrolyte Interphase Nucleation and Growth on Lithium Metal Surfaces. Batteries, 2021, 7, 73.	4.5	3
31	Decomposition Reactivities of Carbonate Electrolyte Vs. Localized High Concentration Electrolytes on NaNiO2 Cathode Surface. ECS Meeting Abstracts, 2021, MA2021-02, 290-290.	0.0	0
32	Unravel SEI Formation on Li Metal Interfaces By Mechanistic Multi-Scale Modelling. ECS Meeting Abstracts, 2021, MA2021-02, 181-181.	0.0	1
33	Effect of Charged Surfaces, High Concentrated and Localized High Concentrated Electrolytes on Lithium Ion Solvation Complex Evolution Near the Electrode Surface. ECS Meeting Abstracts, 2021, MA2021-02, 157-157.	0.0	0
34	Methane dehydrogenation on Cu and Ni surfaces with low and moderate oxygen coverage. International Journal of Quantum Chemistry, 2020, 120, e26065.	2.0	6
35	Li2S growth on graphene: Impact on the electrochemical performance of Li-S batteries. Journal of Chemical Physics, 2020, 152, 014701.	3.0	10
36	Model systems for screening and investigation of lithium metal electrode chemistry and dendrite formation. Physical Chemistry Chemical Physics, 2020, 22, 575-588.	2.8	14

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37	Elucidating Interfacial Phenomena between Solid-State Electrolytes and the Sulfur-Cathode of Lithium–Sulfur Batteries. Chemistry of Materials, 2020, 32, 360-373.	6.7	38
38	A structure and activity relationship for single-walled carbon nanotube growth confirmed by <i>in situ</i> observations and modeling. Nanoscale, 2020, 12, 21923-21931.	5.6	9
39	Lithium oxidation and electrolyte decomposition at Li-metal/liquid electrolyte interfaces. Journal of Materials Chemistry A, 2020, 8, 17036-17055.	10.3	28
40	Local Surface Modulation Activates Metal Oxide Electrocatalyst for Hydrogen Evolution: Synthesis, Characterization, and DFT Study of Novel Black ZnO. ACS Applied Energy Materials, 2020, 3, 10590-10599.	5.1	17
41	Calculated Reduction Potentials of Electrolyte Species in Lithium–Sulfur Batteries. Journal of Physical Chemistry C, 2020, 124, 20654-20670.	3.1	18
42	Insights into lithium ion deposition on lithium metal surfaces. Physical Chemistry Chemical Physics, 2020, 22, 21369-21382.	2.8	16
43	Effects of Solid Electrolyte Interphase Components on the Reduction of LiFSI over Lithium Metal. ChemPhysChem, 2020, 21, 1310-1317.	2.1	17
44	Computational Study of the Evolution of Ni-Based Catalysts during the Dry Reforming of Methane. Energy & Fuels, 2020, 34, 4855-4864.	5.1	22
45	Mesoscale Anatomy of Dead Lithium Formation. Journal of Physical Chemistry C, 2020, 124, 6502-6511.	3.1	31
46	Reversible Crosslinked Polymer Binder for Recyclable Lithium Sulfur Batteries with High Performance. Advanced Functional Materials, 2020, 30, 2003605.	14.9	63
47	Localized High Concentration Electrolytes for High Voltage Lithium–Metal Batteries: Correlation between the Electrolyte Composition and Its Reductive/Oxidative Stability. Chemistry of Materials, 2020, 32, 5973-5984.	6.7	97
48	Effects of charged interfaces on electrolyte decomposition at the lithium metal anode. Journal of Power Sources, 2020, 472, 228449.	7.8	41
49	LiOH Formation from Lithium Peroxide Clusters and the Role of Iodide Additive. Journal of Physical Chemistry C, 2020, 124, 10280-10287.	3.1	4
50	(Invited) Interfacial Phenomena at Electrochemical Interfaces: Insights from First Principles Simulations. ECS Meeting Abstracts, 2020, MA2020-01, 2752-2752.	0.0	0
51	Localized High Concentration Electrolytes for High Voltage Lithium-Metal Batteries: Correlation between Salt, Solvent, and Diluent Contents, and Reductive Stability of the Electrolytes. ECS Meeting Abstracts, 2020, MA2020-01, 371-371.	0.0	0
52	Controlling Reactive Battery Interfaces Using Electron-Accepting Surface Layers. ECS Meeting Abstracts, 2020, MA2020-01, 125-125.	0.0	0
53	Slow Growth Approach for Lithium Ion Deposition on Lithium Metal Anode Surfaces. ECS Meeting Abstracts, 2020, MA2020-02, 794-794.	0.0	0
54	Role of Inorganic Surface Layer on Solid Electrolyte Interphase Evolution at Li-Metal Anodes. ACS Applied Materials & Interfaces, 2019, 11, 31467-31476.	8.0	75

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55	The Role of Ru in Improving the Activity of Pd toward Hydrogen Evolution and Oxidation Reactions in Alkaline Solutions. ACS Catalysis, 2019, 9, 9614-9621.	11.2	112
56	Reactivity of Cu and Co Nanoparticles Supported on Mo-Doped MgO. Industrial & Engineering Chemistry Research, 2019, 58, 18213-18222.	3.7	4
57	First-Principles Study on the Initial Oxidative Decompositions of Ethylene Carbonate on Layered Cathode Surfaces of Lithium-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 14449-14458.	3.1	18
58	Atomistic Simulations of the Reactivity of Acanthite Facets toward Cyanidation. Journal of Physical Chemistry C, 2019, 123, 11888-11898.	3.1	2
59	Synthesis, characterization, and post-synthetic modification of a micro/mesoporous zirconium–tricarboxylate metal–organic framework: towards the addition of acid active sites. CrystEngComm, 2019, 21, 3014-3030.	2.6	38
60	Charge-mediated cation deposition on metallic surfaces. Journal of Materials Chemistry A, 2019, 7, 8527-8539.	10.3	13
61	Mesoscale Elucidation of Self-Discharge-Induced Performance Decay in Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 13326-13333.	8.0	9
62	Chemical and mechanical degradation and mitigation strategies for Si anodes. Journal of Power Sources, 2019, 419, 208-218.	7.8	32
63	Effects of Dimethyl Disulfide Cosolvent on Li–S Battery Chemistry and Performance. Chemistry of Materials, 2019, 31, 2377-2389.	6.7	11
64	Antiâ€Oxygen Leaking LiCoO ₂ . Advanced Functional Materials, 2019, 29, 1901110.	14.9	60
65	Mechanisms of alumina growth <i>via</i> atomic layer deposition on nickel oxide and metallic nickel surfaces. Physical Chemistry Chemical Physics, 2019, 21, 24543-24553.	2.8	5
66	Localized high concentration electrolyte behavior near a lithium–metal anode surface. Journal of Materials Chemistry A, 2019, 7, 25047-25055.	10.3	81
67	Can Single-Walled Carbon Nanotube Diameter Be Defined by Catalyst Particle Diameter?. Journal of Physical Chemistry C, 2019, 123, 30305-30317.	3.1	17
68	Can single-walled carbon nanotube diameter be defined by catalyst particle diameter?. Journal of Physical Chemistry C, 2019, 123, .	3.1	1
69	Exploring the acid catalyzed isomerization of phenanthrene under confinement in mordenite. Microporous and Mesoporous Materials, 2018, 265, 241-249.	4.4	3
70	Evaluation of dry reforming reaction catalysts via computational screening. Catalysis Today, 2018, 312, 23-34.	4.4	8
71	Understanding Ionic Diffusion through SEI Components for Lithium-Ion and Sodium-Ion Batteries: Insights from First-Principles Calculations. Chemistry of Materials, 2018, 30, 3315-3322.	6.7	88
72	Revealing reaction mechanisms of nanoconfined Li2S: implications for lithium–sulfur batteries. Physical Chemistry Chemical Physics, 2018, 20, 11713-11721.	2.8	18

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73	Synergistic Effect of Graphene Oxide for Impeding the Dendritic Plating of Li. Advanced Functional Materials, 2018, 28, 1705917.	14.9	92
74	Exploring the LiOH Formation Reaction Mechanism in Lithium–Air Batteries. Chemistry of Materials, 2018, 30, 708-717.	6.7	27
75	Formation of Multilayer Graphene Domains with Strong Sulfur–Carbon Interaction and Enhanced Sulfur Reduction Zones for Lithium–Sulfur Battery Cathodes. ChemSusChem, 2018, 11, 1970-1980.	6.8	41
76	Adsorption of Carbon on Partially Oxidized Low-Index Cu Surfaces. Langmuir, 2018, 34, 1311-1320.	3.5	2
77	Fluoroethylene Carbonate as a Directing Agent in Amorphous Silicon Anodes: Electrolyte Interface Structure Probed by Sum Frequency Vibrational Spectroscopy and Ab Initio Molecular Dynamics. Nano Letters, 2018, 18, 1145-1151.	9.1	59
78	Enhanced acidity of defective MOF-808: effects of the activation process and missing linker defects. Catalysis Science and Technology, 2018, 8, 847-857.	4.1	28
79	Buildup of the Solid Electrolyte Interphase on Lithium-Metal Anodes: Reactive Molecular Dynamics Study. Journal of Physical Chemistry C, 2018, 122, 10783-10791.	3.1	44
80	Explaining the singlet complexes detected for the reaction Zr(3F) + CH3CH3 through a non-spin flip scheme. Journal of Molecular Modeling, 2018, 24, 12.	1.8	3
81	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. ACS Nano, 2018, 12, 11756-11784.	14.6	388
82	Unveiling the First Nucleation and Growth Steps of Inorganic Solid Electrolyte Interphase Components. Journal of Physical Chemistry C, 2018, 122, 25858-25868.	3.1	6
83	Self-Supported Hydrous Iridium–Nickel Oxide Two-Dimensional Nanoframes for High Activity Oxygen Evolution Electrocatalysts. ACS Catalysis, 2018, 8, 10498-10520.	11.2	103
84	Investigation of the Effect of Graphene-encapsulation on the O2 Release Phenomenon from LixCoO2, Studied by In-situ Heating STEM/EELS. Microscopy and Microanalysis, 2018, 24, 1626-1627.	0.4	0
85	First-principles explorations of the electrochemical lithiation dynamics of a multilayer graphene nanosheet-based sulfur–carbon composite. Journal of Materials Chemistry A, 2018, 6, 18084-18094.	10.3	11
86	Lithiumâ€Pretreated Hard Carbon as Highâ€Performance Sodiumâ€ŀon Battery Anodes. Advanced Energy Materials, 2018, 8, 1801441.	19.5	105
87	First-principles calculations of oxidation potentials of electrolytes in lithium–sulfur batteries and their variations with changes in environment. Physical Chemistry Chemical Physics, 2018, 20, 18811-18827.	2.8	8
88	Elucidating mechanisms of Li plating on Li anodes of lithium-based batteries. Electrochimica Acta, 2018, 284, 485-494.	5.2	19
89	Temperature effect on the nucleation of graphene on Cu (111). RSC Advances, 2018, 8, 27825-27831.	3.6	3
90	Sigma-Holes in Battery Materials Using Iso-Electrostatic Potential Surfaces. Crystals, 2018, 8, 33.	2.2	6

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91	Exploring interfacial stability of solid-state electrolytes at the lithium-metal anode surface. Journal of Power Sources, 2018, 396, 782-790.	7.8	73
92	Mesoscale Understanding of Lithium Electrodeposition for Intercalation Electrodes. Journal of Physical Chemistry C, 2018, 122, 21097-21107.	3.1	6
93	Fundamental principles of battery design. Physical Sciences Reviews, 2018, 3, .	0.8	4
94	Facet-Dependent Thermal Instability in LiCoO ₂ . Nano Letters, 2017, 17, 2165-2171.	9.1	99
95	Tuning the Solid Electrolyte Interphase for Selective Li―and Naâ€Ion Storage in Hard Carbon. Advanced Materials, 2017, 29, 1606860.	21.0	157
96	Revealing Charge Transport Mechanisms in Li ₂ S ₂ for Li–Sulfur Batteries. Journal of Physical Chemistry Letters, 2017, 8, 1324-1330.	4.6	56
97	Why Porous Materials Have Selective Adsorptions: A Rational Aspect from Electrodynamics. Inorganic Chemistry, 2017, 56, 2614-2620.	4.0	12
98	CO ₂ Capture and Separations Using MOFs: Computational and Experimental Studies. Chemical Reviews, 2017, 117, 9674-9754.	47.7	837
99	In Situ Chemical Imaging of Solid-Electrolyte Interphase Layer Evolution in Li–S Batteries. Chemistry of Materials, 2017, 29, 4728-4737.	6.7	147
100	Mesoscale Evaluation of Titanium Silicide Monolayer as a Cathode Host Material in Lithium–Sulfur Batteries. Jom, 2017, 69, 1532-1536.	1.9	5
101	Dynamics of the Lithiation and Sodiation of Silicon Allotropes: From the Bulk to the Surface. Journal of the Electrochemical Society, 2017, 164, A1644-A1650.	2.9	6
102	Direct evidence of atomic-scale structural fluctuations in catalyst nanoparticles. Journal of Catalysis, 2017, 349, 149-155.	6.2	41
103	Growth of Carbon Nanostructures on Cu Nanocatalysts. Journal of Physical Chemistry C, 2017, 121, 7232-7239.	3.1	5
104	Effects of High and Low Salt Concentration in Electrolytes at Lithium–Metal Anode Surfaces. Journal of Physical Chemistry C, 2017, 121, 182-194.	3.1	128
105	First-principles investigation of Pd3Bi as a catalyst for the oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 30359-30363.	7.1	4
106	Mathematical Modeling of Electrochemical Systems at Multiple Scales in Honor of Professor John Newman. Journal of the Electrochemical Society, 2017, 164, Y13-Y13.	2.9	2
107	Phase Behavior of Methane–Ethane Mixtures in Nanopores. Industrial & Engineering Chemistry Research, 2017, 56, 11634-11643.	3.7	39
108	First-Principles Investigation of Lithium Polysulfide Structure and Behavior in Solution. Journal of Physical Chemistry C, 2017, 121, 21105-21117.	3.1	53

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109	Performance evaluation of catalysts in the dry reforming reaction of methane via the ratings concept. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 53-68.	1.7	8
110	Insights into the Li Intercalation and SEI Formation on LiSi Nanoclusters. Journal of the Electrochemical Society, 2017, 164, E3457-E3464.	2.9	10
111	Structure of Supported and Unsupported Catalytic Rh Nanoparticles: Effects on Nucleation of Single-Walled Carbon Nanotubes. Langmuir, 2017, 33, 11109-11119.	3.5	1
112	Hole Polaron Diffusion in the Final Discharge Product of Lithium–Sulfur Batteries. Journal of Physical Chemistry C, 2017, 121, 17169-17175.	3.1	15
113	Structural Dependence of the Sulfur Reduction Mechanism in Carbon-Based Cathodes for Lithium–Sulfur Batteries. Journal of Physical Chemistry C, 2017, 121, 18369-18377.	3.1	17
114	Effect of solid electrolyte interphase on the reactivity of polysulfide over lithium-metal anode. Electrochimica Acta, 2017, 258, 1320-1328.	5.2	13
115	Mesoscale Elucidation of Solid Electrolyte Interphase Layer Formation in Li-Ion Battery Anode. Journal of Physical Chemistry C, 2017, 121, 26233-26240.	3.1	38
116	Elucidating electrolyte decomposition under electron-rich environments at the lithium-metal anode. Physical Chemistry Chemical Physics, 2017, 19, 30861-30873.	2.8	65
117	Reduction of Electrolyte Components on a Coated Si Anode of Lithium-Ion Batteries. Journal of Physical Chemistry Letters, 2017, 8, 3404-3408.	4.6	13
118	In situ optical measurement of the rapid Li intercalation and deintercalation dynamics in colloidal 2D layered TiS ₂ nanodiscs. Nanoscale, 2016, 8, 11248-11255.	5.6	5
119	Open Framework Allotropes of Silicon: Potential Anode Materials for Na and Li-ion Batteries. Electrochimica Acta, 2016, 207, 301-307.	5.2	22
120	Evaluating silicene as a potential cathode host to immobilize polysulfides in lithium–sulfur batteries. Journal of Coordination Chemistry, 2016, 69, 2090-2105.	2.2	37
121	Influence of sp ³ –sp ² Carbon Nanodomains on Metal/Support Interaction, Catalyst Durability, and Catalytic Activity for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 23260-23269.	8.0	95
122	Surface Structure and Acidity Properties of Mesoporous Silica SBA-15 Modified with Aluminum and Titanium: First-Principles Calculations. Journal of Physical Chemistry C, 2016, 120, 18105-18114.	3.1	21
123	Ethylene Carbonate Reduction on Lithiated Surfaces of Hydroxylated Amorphous Silicon Dioxide. Journal of the Electrochemical Society, 2016, 163, A2197-A2202.	2.9	7
124	Scaling Atomic Partial Charges of Carbonate Solvents for Lithium Ion Solvation and Diffusion. Journal of Chemical Theory and Computation, 2016, 12, 5709-5718.	5.3	64
125	Elucidating Oligomer-Surface and Oligomer-Oligomer Interactions at a Lithiated Silicon Surface. Electrochimica Acta, 2016, 220, 312-321.	5.2	9
126	Catalytic Upgrading of Methane to Higher Hydrocarbon in a Nonoxidative Chemical Conversion. Energy & Fuels, 2016, 30, 2584-2593.	5.1	26

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127	Long-Chain Polysulfide Retention at the Cathode of Li–S Batteries. Journal of Physical Chemistry C, 2016, 120, 4296-4305.	3.1	85
128	Towards Next Generation Lithium-Sulfur Batteries: Non-Conventional Carbon Compartments/Sulfur Electrodes and Multi-Scale Analysis. Journal of the Electrochemical Society, 2016, 163, A730-A741.	2.9	43
129	Li ₂ S Film Formation on Lithium Anode Surface of Li–S batteries. ACS Applied Materials & Interfaces, 2016, 8, 4700-4708.	8.0	70
130	Response of Metal Sites toward Water Effects on Postcombustion CO ₂ Capture in Metal–Organic Frameworks. ACS Sustainable Chemistry and Engineering, 2016, 4, 2387-2394.	6.7	24
131	Stability of Solid Electrolyte Interphase Components on Lithium Metal and Reactive Anode Material Surfaces. Journal of Physical Chemistry C, 2016, 120, 6302-6313.	3.1	139
132	Effects of oxygen coverage, catalyst size, and core composition on Pt-alloy core–shell nanoparticles for oxygen reduction reaction. Catalysis Science and Technology, 2016, 6, 5168-5177.	4.1	22
133	Dynamic structural changes in a single catalyst particle during single walled carbon nanotube growth. Microscopy and Microanalysis, 2015, 21, 571-572.	0.4	0
134	Structure and dynamics of metallic and carburized catalytic Ni nanoparticles: effects on growth of single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2015, 17, 15056-15064.	2.8	5
135	Nanocatalyst shape and composition during nucleation of single-walled carbon nanotubes. RSC Advances, 2015, 5, 106377-106386.	3.6	15
136	Adsorption of insoluble polysulfides Li2Sx (x = 1, 2) on Li2S surfaces. Physical Chemistry Chemical Physics, 2015, 17, 9032-9039.	2.8	53
137	First-Principles Calculations of Lithiation of a Hydroxylated Surface of Amorphous Silicon Dioxide. Journal of Physical Chemistry C, 2015, 119, 16424-16431.	3.1	43
138	Structure and Reactivity of Alucone-Coated Films on Si and Li _{<i>x</i>} Si _{<i>y</i>} Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 11948-11955.	8.0	39
139	Effect of the Electrolyte Composition on SEI Reactions at Si Anodes of Li-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 7060-7068.	3.1	68
140	Electronic interaction between platinum nanoparticles and nitrogen-doped reduced graphene oxide: effect on the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 11891-11904.	10.3	143
141	Anisotropic Electron–Phonon Coupling in Colloidal Layered TiS ₂ Nanodiscs Observed via Coherent Acoustic Phonons. Journal of Physical Chemistry C, 2015, 119, 7436-7442.	3.1	11
142	Formation and Growth Mechanisms of Solid-Electrolyte Interphase Layers in Rechargeable Batteries. Chemistry of Materials, 2015, 27, 7990-8000.	6.7	225
143	Reactivity at the Lithium–Metal Anode Surface of Lithium–Sulfur Batteries. Journal of Physical Chemistry C, 2015, 119, 26828-26839.	3.1	140
144	Small-Molecule Activation Driven by Confinement Effects. ACS Catalysis, 2015, 5, 215-224.	11.2	8

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145	How Impurities Affect CO ₂ Capture in Metal–Organic Frameworks Modified with Different Functional Groups. ACS Sustainable Chemistry and Engineering, 2015, 3, 117-124.	6.7	27
146	Electrolyte materials - Issues and challenges. AIP Conference Proceedings, 2014, , .	0.4	27
147	Activity and Durability of PEFCs Alloy Core-Shell Catalysts: Role of Surface Oxidation. Advances in Science and Technology, 2014, 93, 31-40.	0.2	1
148	Nucleation of Graphene and Its Conversion to Single-Walled Carbon Nanotubes. Nano Letters, 2014, 14, 6104-6108.	9.1	67
149	DFT Study of Reduction Mechanisms of Ethylene Carbonate and Fluoroethylene Carbonate on Li ⁺ -Adsorbed Si Clusters. Journal of the Electrochemical Society, 2014, 161, E3097-E3109.	2.9	36
150	Structure and Dynamics of Carbon Dioxide, Nitrogen, Water, and Their Mixtures in Metal Organic Frameworks. Journal of Chemical & Engineering Data, 2014, 59, 2973-2981.	1.9	9
151	Reduction mechanisms of additives on Si anodes of Li-ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 17091-17098.	2.8	80
152	Mathematical Modeling of Electrochemical Systems at Multiple Scales. Journal of the Electrochemical Society, 2014, 161, Y9-Y9.	2.9	5
153	Dynamics of Topological Defects in Single-Walled Carbon Nanotubes during Catalytic Growth. Journal of Physical Chemistry C, 2014, 118, 4808-4817.	3.1	15
154	Modeling Electrochemical Decomposition of Fluoroethylene Carbonate on Silicon Anode Surfaces in Lithium Ion Batteries. Journal of the Electrochemical Society, 2014, 161, A213-A221.	2.9	132
155	Engineering Preferential Adsorption of Single-Walled Carbon Nanotubes on Functionalized ST-cut Surfaces of Quartz. ACS Applied Materials & Interfaces, 2014, 6, 12665-12673.	8.0	1
156	Atomic Resolution Single Walled Carbon Nanotube Nucleation Steps on Faceted Catalyst Particle Reveal Potential for Chirality Control. Microscopy and Microanalysis, 2014, 20, 1758-1759.	0.4	0
157	Spectroelectrochemical Probing of the Strong Interaction between Platinum Nanoparticles and Graphitic Domains of Carbon. ACS Catalysis, 2013, 3, 1940-1950.	11.2	78
158	Vibrational spectra of an RDX film over an aluminum substrate from molecular dynamics simulations and density functional theory. Journal of Molecular Modeling, 2013, 19, 2773-2778.	1.8	5
159	Dealloying of platinum-based alloy catalysts: Kinetic Monte Carlo simulations. Electrochimica Acta, 2013, 101, 326-333.	5.2	35
160	Experimental and theoretical study of NiMoW, NiMo, and NiW sulfide catalysts supported on an AlTiMg mixed oxide during the hydrodesulfurization of dibenzothiophene. Fuel, 2013, 113, 733-743.	6.4	44
161	Characterization of Electronic States inside Metallic Nanopores. Journal of Physical Chemistry C, 2013, 117, 18406-18413.	3.1	3
162	Building multiple adsorption sites in porous polymer networks for carbon capture applications. Energy and Environmental Science, 2013, 6, 3559.	30.8	130

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