

R Jürgen Behm

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

636
papers

36,112
citations

95
h-index

161
g-index

660
ext. papers

38,740
ext. citations

5.6
avg, IF

7.38
L-index

#	Paper	IF	Citations
636	Interaction of Mg with the ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide—An experimental and computational model study of the electrode electrolyte interface in post-lithium batteries. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 023204	2.9	1
635	Reversible Copper Sulfide Conversion in Nonflammable Trimethyl Phosphate Electrolytes for Safe Sodium-Ion Batteries. <i>Small Structures</i> , 2021 , 2, 2100035	8.7	17
634	Controlling the O-Vacancy Formation and Performance of Au/ZnO Catalysts in CO ₂ Reduction to Methanol by the ZnO Particle Size. <i>ACS Catalysis</i> , 2021 , 11, 9022-9033	13.1	10
633	Effects of SiO ₂ -doping on high-surface-area Ru/TiO ₂ catalysts for the selective CO methanation. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119483	21.8	7
632	Influence of Complexing Additives on the Reversible Deposition/Dissolution of Magnesium in an Ionic Liquid. <i>ChemElectroChem</i> , 2021 , 8, 390-402	4.3	3
631	Embedding Heterostructured γ -MnS/MnO Nanoparticles in S-Doped Carbonaceous Porous Framework as High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2021 , 8, 918-927	4.3	8
630	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. <i>Advanced Energy Materials</i> , 2021 , 11, 2100962	21.8	9
629	Performance of Au/ZnO catalysts in CO ₂ reduction to methanol: Varying the Au loading / Au particle size. <i>Applied Catalysis A: General</i> , 2021 , 624, 118318	5.1	4
628	Electronic metal-support interactions and their promotional effect on CO ₂ methanation on Ru/ZrO ₂ catalysts. <i>Journal of Catalysis</i> , 2021 , 400, 407-420	7.3	6
627	Interaction of bimetallic Zn/Au(111) surfaces with O ₂ or NO ₂ and formation of ZnO _x /Au(111). <i>Surface Science</i> , 2021 , 711, 121863	1.8	2
626	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery (Adv. Energy Mater. 35/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170136	21.8	
625	Ru(0001) surface electrochemistry in the presence of specifically adsorbing anions. <i>Electrochimica Acta</i> , 2021 , 389, 138350	6.7	0
624	Steering the selectivity in CO ₂ reduction on highly active Ru/TiO ₂ catalysts: Support particle size effects. <i>Journal of Catalysis</i> , 2021 , 401, 160-173	7.3	3
623	Low-temperature nucleation and growth of Zn on Au(111) and thermal stability toward (surface) alloy formation. <i>Journal of Chemical Physics</i> , 2021 , 155, 124704	3.9	0
622	UHV preparation and electrochemical/-catalytic properties of well-defined Co and Fe-containing unary and binary oxide model cathodes for the oxygen reduction and oxygen evolution reaction in Zn-air batteries. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115497	4.1	1
621	Influence of water vapor on the performance of Au/ZnO catalysts in methanol synthesis from CO ₂ and H ₂ : A high-pressure kinetic and TAP reactor study. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120416	21.8	2
620	Introducing Highly Redox-Active Atomic Centers into Insertion-Type Electrodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000783	21.8	20

619	Adlayer growth vs spontaneous (near-) surface alloy formation: Zn growth on Au(111). <i>Journal of Chemical Physics</i> , 2020 , 152, 124701	3.9	3
618	Surface Science and Electrochemical Model Studies on the Interaction of Graphite and Li-Containing Ionic Liquids. <i>ChemSusChem</i> , 2020 , 13, 2589-2601	8.3	5
617	Understanding the Origin of Higher Capacity for Ni-Based Disordered Rock-Salt Cathodes. <i>Chemistry of Materials</i> , 2020 , 32, 3447-3461	9.6	8
616	Encapsulation of Ru nanoparticles: Modifying the reactivity toward CO and CO ₂ methanation on highly active Ru/TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118846	21.8	43
615	Lithium-Ion Batteries: Introducing Highly Redox-Active Atomic Centers into Insertion-Type Electrodes for Lithium-Ion Batteries (Adv. Energy Mater. 25/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070112	21.8	0
614	Oxygen Reduction and Evolution on Ni-modified Co O (1 1 1) Cathodes for Zn-Air Batteries: A Combined Surface Science and Electrochemical Model Study. <i>ChemSusChem</i> , 2020 , 13, 3199-3211	8.3	21
613	Influence of Additives on the Reversible Oxygen Reduction Reaction/Oxygen Evolution Reaction in the Mg -Containing Ionic Liquid N-Butyl-N-Methylpyrrolidinium Bis(Trifluoromethanesulfonyl)imide. <i>ChemSusChem</i> , 2020 , 13, 3919	8.3	4
612	Side reactions and stability of pre-treated carbon felt electrodes for vanadium redox flow batteries: A DEMS study. <i>Carbon</i> , 2020 , 158, 580-587	10.4	19
611	Highly Reversible Sodiation of Tin in Glyme Electrolytes: The Critical Role of the Solid Electrolyte Interphase and Its Formation Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3697-3708	9.5	14
610	Selective Modification and Probing of the Electrocatalytic Activity of Step Sites. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1278-1286	16.4	9
609	Synthesis of amorphous and graphitized porous nitrogen-doped carbon spheres as oxygen reduction reaction catalysts. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 1-15	3	7
608	Ionic Liquid Electrolytes for Metal-Air Batteries: Interactions between O ₂ , Zn ²⁺ and H ₂ O Impurities. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 070505	3.9	8
607	Calcium Sulfur Batteries: Rechargeable Calcium Sulfur Batteries Enabled by an Efficient Borate-Based Electrolyte (Small 39/2020). <i>Small</i> , 2020 , 16, 2070216	11	2
606	Electrochemical and compositional characterization of solid interphase layers in an interface-modified solid-state Li Sulfur battery. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16451-16462	13	17
605	CO ₂ Reduction to Methanol on Au/CeO ₂ Catalysts: Mechanistic Insights from Activation/Deactivation and SSITKA Measurements. <i>ACS Catalysis</i> , 2020 , 10, 3580-3594	13.1	20
604	Model Studies on Solid Electrolyte Interphase Formation on Graphite Electrodes in Ethylene Carbonate and Dimethyl Carbonate II: Graphite Powder Electrodes. <i>ChemElectroChem</i> , 2020 , 7, 4794-4809	4.3	2
603	Superoxide formation in Li ₂ VO ₂ F cathode material: A combined computational and experimental investigation of anionic redox activity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16551-16559	13	9
602	Reducing Capacity and Voltage Decay of Co-Free Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquid-Based Electrolyte. <i>Advanced Energy Materials</i> , 2020 , 10, 2001830	21.8	17

601	Pt nanocluster size effects in the hydrogen evolution reaction: approaching the theoretical maximum activity. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19059-19068	3.6	4
600	Raising the CO Methanation Activity of a Ru/Al ₂ O ₃ Catalyst by Activated Modification of Metal-Support Interactions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22763-22770	16.4	20
599	Impact of Surface Chemistry and Doping Concentrations on Biofunctionalization of GaN/Ga-In-N Quantum Wells. <i>Sensors</i> , 2020 , 20,	3.8	1
598	Anodic molecular hydrogen formation on Ru and Cu electrodes. <i>Catalysis Science and Technology</i> , 2020 , 10, 6870-6878	5.5	9
597	Metal-Organic Framework Derived Fe ₇ S ₈ Nanoparticles Embedded in Heteroatom-Doped Carbon with Lithium and Sodium Storage Capability. <i>Small Methods</i> , 2020 , 4, 2000637	12.8	18
596	Investigation on the formation of Mg metal anode/electrolyte interfaces in Mg/S batteries with electrolyte additives. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22998-23010	13	21
595	Aktivierete Modifikation der Träger-Metall-Wechselwirkungen als Schlüssel für hochaktive Ru/Al ₂ O ₃ -Katalysatoren für die CO _x -Methanisierung. <i>Angewandte Chemie</i> , 2020 , 132, 22951-22959	3.6	
594	Lithium Metal Batteries: Reducing Capacity and Voltage Decay of Co-Free Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquid-Based Electrolyte (Adv. Energy Mater. 34/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070142	21.8	
593	Interaction between Li, Ultrathin Adsorbed Ethylene Carbonate Films, and CoO(111) Thin Films: A Model Study of the Solid Electrolyte Interphase Formation at CoO Anodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21476-21490	3.8	1
592	Rechargeable Calcium-Sulfur Batteries Enabled by an Efficient Borate-Based Electrolyte. <i>Small</i> , 2020 , 16, e2001806	11	12
591	Influence of CO on the Activation, O-Vacancy Formation, and Performance of Au/ZnO Catalysts in CO Hydrogenation to Methanol. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3645-3653	6.4	28
590	Oxygen Activity in Li-Rich Disordered Rock-Salt Oxide and the Influence of LiNbO ₃ Surface Modification on the Electrochemical Performance. <i>Chemistry of Materials</i> , 2019 , 31, 4330-4340	9.6	23
589	A novel DEMS approach for studying gas evolution at battery-type electrode/electrolyte interfaces: High-voltage LiNi _{0.5} Mn _{1.5} O ₄ cathode in ethylene and dimethyl carbonate electrolytes. <i>Electrochimica Acta</i> , 2019 , 314, 188-201	6.7	17
588	Morphologie-optimierte hochaktive und -stabile Ru/TiO ₂ -Katalysatoren für die selektive CO-Methanisierung. <i>Angewandte Chemie</i> , 2019 , 131, 10842-10847	3.6	5
587	Morphology-Engineered Highly Active and Stable Ru/TiO Catalysts for Selective CO Methanation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10732-10736	16.4	41
586	Electro-oxidation of methanol on Ru-core Pt-shell type model electrodes. <i>Electrochimica Acta</i> , 2019 , 311, 244-254	6.7	13
585	Ladungszustand von Au-Nanopartikeln während der Methanolsynthese aus CO ₂ /H ₂ an Au/ZnO-Katalysatoren: Einsichten aus Operando IR-Spektroskopie und In-situ XPS- und XAS-Messungen. <i>Angewandte Chemie</i> , 2019 , 131, 10431-10436	3.6	1
584	Revisiting the Electrochemical Lithiation Mechanism of Aluminum and the Role of Li-rich Phases (Li Al) on Capacity Fading. <i>ChemSusChem</i> , 2019 , 12, 2609-2619	8.3	20

583	Effect of Li+ and Mg2+ on the Electrochemical Decomposition of the Ionic Liquid 1-Butyl-1-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide and Related Electrolytes. <i>ChemElectroChem</i> , 2019 , 6, 3009-3019	4.3	7
582	Highly Active and Stable Single-Atom Cu Catalysts Supported by a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5201-5210	16.4	219
581	Atomic scale insights on the electronic and geometric effects in the electro-oxidation of CO on Pt _x Ru _{1-x} /Ru(0001) surface alloys. <i>Electrochimica Acta</i> , 2019 , 306, 516-528	6.7	9
580	Negative Charging of Au Nanoparticles during Methanol Synthesis from CO /H on a Au/ZnO Catalyst: Insights from Operando IR and Near-Ambient-Pressure XPS and XAS Measurements. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10325-10329	16.4	36
579	Selective CO methanation on isostructural Ru nanocatalysts: The role of support effects. <i>Journal of Catalysis</i> , 2019 , 373, 103-115	7.3	23
578	Interaction between Li, Ultrathin Adsorbed Ionic Liquid Films, and CoO(111) Thin Films: A Model Study of the Solid Electrolyte Interphase Formation. <i>Chemistry of Materials</i> , 2019 , 31, 5537-5549	9.6	5
577	Model Studies on the Solid Electrolyte Interphase Formation on Graphite Electrodes in Ethylene Carbonate and Dimethyl Carbonate: Highly Oriented Pyrolytic Graphite. <i>ChemElectroChem</i> , 2019 , 6, 4985-4997	4.2	9
576	Revisiting the Electrochemical Lithiation Mechanism of Aluminum and the Role of Li-rich Phases (Li _{1+x} Al) on Capacity Fading. <i>ChemSusChem</i> , 2019 , 12, 2492-2492	8.3	1
575	Superior Lithium Storage Capacity of MnS Nanoparticles Embedded in S-Doped Carbonaceous Mesoporous Frameworks. <i>Advanced Energy Materials</i> , 2019 , 9, 1902077	21.8	67
574	Surface chemistry and electrochemistry of an ionic liquid and lithium on LiTiO(111)-A model study of the anode electrolyte interface. <i>Journal of Chemical Physics</i> , 2019 , 151, 134704	3.9	3
573	The Effect of Anions and pH on the Activity and Selectivity of an Annealed Polycrystalline Au Film Electrode in the Oxygen Reduction Reaction-Revisited. <i>ChemPhysChem</i> , 2019 , 20, 3276-3288	3.2	14
572	Insights into the electrochemical processes of rechargeable magnesium-sulfur batteries with a new cathode design. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25490-25502	13	33
571	Chemical and Electronic Changes of the CeO ₂ Support during CO Oxidation on Au/CeO ₂ Catalysts: Time-Resolved Operando XAS at the Ce LIII Edge. <i>Catalysts</i> , 2019 , 9, 785	4	6
570	Interaction of Ultrathin Films of Ethylene Carbonate with Oxidized and Reduced Lithium Cobalt Oxide: A Model Study of the Cathode Electrolyte Interface in Li-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801650	4.6	9
569	Exploring SnS nanoparticles interpenetrated with high concentration nitrogen-doped-carbon as anodes for sodium ion batteries. <i>Electrochimica Acta</i> , 2019 , 296, 806-813	6.7	22
568	How many electrons are transferred during the electrochemical O ₂ reduction in a Mg ²⁺ -free / Mg ²⁺ -containing ionic liquid?. <i>Electrochimica Acta</i> , 2019 , 299, 372-377	6.7	6
567	The role of nitrogen-doping and the effect of the pH on the oxygen reduction reaction on highly active nitrated carbon sphere catalysts. <i>Electrochimica Acta</i> , 2019 , 299, 736-748	6.7	17
566	O ₂ reduction on a Au film electrode in an ionic liquid in the absence and presence of Mg ions: Product formation and adlayer dynamics. <i>Journal of Chemical Physics</i> , 2019 , 150, 041724	3.9	6

565	Impact of the electrolyte salt anion on the solid electrolyte interphase formation in sodium ion batteries. <i>Nano Energy</i> , 2019 , 55, 327-340	17.1	114
564	Dynamic changes of Au/ZnO catalysts during methanol synthesis: A model study by temporal analysis of products (TAP) and Zn LIII near Edge X-Ray absorption spectroscopy. <i>Catalysis Today</i> , 2019 , 336, 193-202	5.3	10
563	Structure formation and surface chemistry of ionic liquids on model electrode surfaces-Model studies for the electrode electrolyte interface in Li-ion batteries. <i>Journal of Chemical Physics</i> , 2018 , 148, 193821	3.9	13
562	Oxygen Adsorption and Low-Temperature CO Oxidation on a Nanoporous Au Catalyst: Reaction Mechanism and Foreign Metal Effects. <i>Topics in Catalysis</i> , 2018 , 61, 446-461	2.3	5
561	Performance Improvement of V-Fe-Cr-Ti Solid State Hydrogen Storage Materials in Impure Hydrogen Gas. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1662-1671	9.5	8
560	The performance of structurally well-defined Ag _x Pt _{1-x} /Pt(111) surface alloys in the oxygen reduction reaction [An atomic-scale picture. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 401-409	4.1	6
559	Partial dissociation of water on Ru(0001) at low temperatures [Adsorption, structure formation and hydrogen passivation effects. <i>Surface Science</i> , 2018 , 674, 32-39	1.8	4
558	Selective CO Methanation on Highly Active Ru/TiO ₂ Catalysts: Identifying the Physical Origin of the Observed Activation/Deactivation and Loss in Selectivity. <i>ACS Catalysis</i> , 2018 , 8, 5399-5414	13.1	45
557	Spectroscopic investigations on the origin of the improved performance of composites of nanoparticles/graphene sheets as anodes for lithium ion batteries. <i>Carbon</i> , 2018 , 127, 47-56	10.4	7
556	Adsorption of Ultrathin Ethylene Carbonate Films on Pristine and Lithiated Graphite and Their Interaction with Li. <i>Langmuir</i> , 2018 , 34, 8451-8463	4	10
555	Temperature-dependent insertion and adsorption of lithium on spinel LiTiO(111) thin films - an angle-resolved XPS study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18319-18327	3.6	7
554	MnPO ₄ -Coated Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Lithium(-ion) Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics. <i>Advanced Energy Materials</i> , 2018 , 8, 1801573	21.8	64
553	Experimental and Computational Study on the Interaction of an Ionic Liquid Monolayer with Lithium on Pristine and Lithiated Graphite. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18968-18981	3.8	9
552	Toward Highly Reversible Magnesium-Sulfur Batteries with Efficient and Practical Mg[B(hfp) ₄] ₂ Electrolyte. <i>ACS Energy Letters</i> , 2018 , 3, 2005-2013	20.1	149
551	Electrochemical Formation and Characterization of Surface Blocking Layers on Gold and Platinum by Oxygen Reduction in Mg(ClO ₄) ₂ in DMSO. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A2037-A2046	3.9	6
550	Microscopic Electrode Processes in the Four-Electron Oxygen Reduction on Highly Active Carbon-Based Electrocatalysts. <i>ACS Catalysis</i> , 2018 , 8, 8162-8176	13.1	35
549	Selective Binding of Inhibitor-Assisted Surface-Imprinted Core/Shell Microbeads in Protein Mixtures. <i>ChemistrySelect</i> , 2018 , 3, 4277-4282	1.8	4
548	Complementary Strategies Toward the Aqueous Processing of High-Voltage LiNi Mn O Lithium-Ion Cathodes. <i>ChemSusChem</i> , 2018 , 11, 562-573	8.3	49

547	Dynamic surface composition in a Mars-van Krevelen type reaction: CO oxidation on Au/TiO ₂ . <i>Journal of Catalysis</i> , 2018 , 357, 263-273	7.3	45
546	Comparative study of imide-based Li salts as electrolyte additives for Li-ion batteries. <i>Journal of Power Sources</i> , 2018 , 375, 43-52	8.9	90
545	Electronic effects on the water adsorption behaviour and structure formation on pseudomorphic Pt films on Ru(0001). <i>Surface Science</i> , 2018 , 676, 30-38	1.8	1
544	Stability and ORR performance of a well-defined bimetallic Ag ₇₀ Pt ₃₀ /Pt(111) monolayer surface alloy electrode [Probing the de-alloying at an atomic scale. <i>Electrochimica Acta</i> , 2018 , 259, 762-771	6.7	9
543	Differential Electrochemical Mass Spectrometry of Carbon Felt Electrodes for Vanadium Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6714-6718	6.1	9
542	On the Role of the Support in Pt Anode Catalyst Degradation under Simulated H ₂ Fuel Starvation Conditions. <i>Journal of the Electrochemical Society</i> , 2018 , 165, J3342-J3349	3.9	10
541	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. <i>Nature Communications</i> , 2018 , 9, 5115	17.4	73
540	Manganese phosphate coated Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ cathode material: Towards superior cycling stability at elevated temperature and high voltage. <i>Journal of Power Sources</i> , 2018 , 402, 263-271	8.9	69
539	MnPO ₄ -Coated Li-NCM: MnPO ₄ -Coated Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Lithium(-Ion) Batteries with Outstanding Cycling Stability and Enhanced Lithiation Kinetics (Adv. Energy Mater. 27/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870123	21.8	7
538	Conversion/alloying lithium-ion anodes [enhancing the energy density by transition metal doping. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2601-2608	5.8	34
537	Oxygen reduction reaction activity and long-term stability of platinum nanoparticles supported on titania and titania-carbon nanotube composites. <i>Journal of Power Sources</i> , 2018 , 400, 580-591	8.9	14
536	Insight into Sulfur Confined in Ultramicroporous Carbon. <i>ACS Omega</i> , 2018 , 3, 11290-11299	3.9	27
535	CO Oxidation on a Au/TiO ₂ Nanoparticle Catalyst via the Au-Assisted Mars-van Krevelen Mechanism. <i>ACS Catalysis</i> , 2018 , 8, 6513-6525	13.1	71
534	Electrocatalytic Oxygen Reduction and Oxygen Evolution in Mg-Free and Mg-Containing Ionic Liquid 1-Butyl-1-Methylpyrrolidinium Bis (Trifluoromethanesulfonyl) Imide. <i>ChemElectroChem</i> , 2018 , 5, 2600-2611	4.3	8
533	Dendrite Growth in Mg Metal Cells Containing Mg(TFSI) ₂ /Glyme Electrolytes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1983-A1990	3.9	69
532	Influence of re-activation and ongoing CO oxidation reaction on the chemical and electronic properties of Au on a Au/CeO ₂ catalyst: A XANES study at the Au LIII edge. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017 , 220, 86-90	1.7	5
531	Interlayer-Expanded Vanadium Oxochloride as an Electrode Material for Magnesium-Based Batteries. <i>ChemElectroChem</i> , 2017 , 4, 738-745	4.3	20
530	Excellent Cycling Stability and Superior Rate Capability of Na ₃ V ₂ (PO ₄) ₃ Cathodes Enabled by Nitrogen-Doped Carbon Interpenetration for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017 , 4, 1256-1263	4.3	27

529	Influence of TiO ₂ Bulk Defects on CO Adsorption and CO Oxidation on Au/TiO ₂ : Electronic Metal-Support Interactions (EMSI) in Supported Au Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 2339-2345	13.1	94
528	Influence of Step and Island Edges on Local Adsorption Properties: Hydrogen Adsorption on Pt Monolayer Island Modified Ru(0001) Electrodes. <i>Electrocatalysis</i> , 2017 , 8, 530-539	2.7	8
527	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2017 , 10, 2668-2676	8.3	97
526	Insights into the reversibility of aluminum graphite batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9682-9690	13	84
525	Investigation on the Thermal Stability of Li ₂ MnSiO ₄ -Based Cathodes for Li-ion Batteries: Effect of Electrolyte and State of Charge. <i>Energy Technology</i> , 2017 , 5, 1561-1570	3.5	9
524	Silicon carboxylate derived silicon oxycarbides as anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10190-10199	13	19
523	CuF ₂ as Reversible Cathode for Fluoride Ion Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1701051-1701056	15.6	81
522	Study of all solid-state rechargeable fluoride ion batteries based on thin-film electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1243-1251	2.6	23
521	Dynamics of the Interaction of Formic Acid with a Polycrystalline Pt Film Electrode: a Time-Resolved ATR-FTIR Spectroscopy Study at Low Potentials and Temperatures. <i>Electrocatalysis</i> , 2017 , 8, 616-629	2.7	3
520	A Porphyrin Complex as a Self-Conditioned Electrode Material for High-Performance Energy Storage. <i>Angewandte Chemie</i> , 2017 , 129, 10477-10482	3.6	21
519	A Porphyrin Complex as a Self-Conditioned Electrode Material for High-Performance Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10341-10346	16.4	57
518	Silanization of Sapphire Surfaces for Optical Sensing Applications. <i>ACS Sensors</i> , 2017 , 2, 522-530	9.2	2
517	Synthesis and electrocatalytic performance of spherical core-shell tantalum (oxy)nitride@nitrided carbon composites in the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2017 , 227, 367-381	6.7	15
516	Insights into solid electrolyte interphase formation on alternative anode materials in lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 249-259	2.6	12
515	Structure, surface chemistry and electrochemical de-alloying of bimetallic Pt _x Ag _{100-x} nanoparticles: Quantifying the changes in the surface properties for adsorption and electrocatalytic transformation upon selective Ag removal. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 793, 164-173	4.1	7
514	The role of electronic metal-support interactions and its temperature dependence: CO adsorption and CO oxidation on Au/TiO ₂ catalysts in the presence of TiO ₂ bulk defects. <i>Journal of Catalysis</i> , 2017 , 354, 46-60	7.3	65
513	High activity and negative apparent activation energy in low-temperature CO oxidation is present on Au/Mg(OH) ₂ , absent on Au/TiO ₂ . <i>Catalysis Science and Technology</i> , 2017 , 7, 4145-4161	5.5	15
512	Lithium-Magnesium Hybrid Battery with Vanadium Oxychloride as Electrode Material. <i>ChemistrySelect</i> , 2017 , 2, 7558-7564	1.8	6

511	Ultrafast Ionic Liquid-Assisted Microwave Synthesis of SnO Microflowers and Their Superior Sodium-Ion Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26797-26804	9.5	23
510	Avoiding Self-Poisoning: A Key Feature for the High Activity of Au/Mg(OH) Catalysts in Continuous Low-Temperature CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9597-9602	16.4	26
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