

Alexander V Rudnev

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,647
citations

304368

22
h-index

288905

40
g-index

44
all docs

44
docs citations

44
times ranked

2413
citing authors

#	ARTICLE	IF	CITATIONS
1	Break junction under electrochemical gating: testbed for single-molecule electronics. <i>Chemical Society Reviews</i> , 2015, 44, 889-901.	18.7	205
2	Electrochemical CO ₂ Reduction – A Critical View on Fundamentals, Materials and Applications. <i>Chimia</i> , 2015, 69, 769.	0.3	130
3	Electrochemical Control of Single-Molecule Conductance by Fermi-Level Tuning and Conjugation Switching. <i>Journal of the American Chemical Society</i> , 2014, 136, 17922-17925.	6.6	119
4	In Situ Monitoring of Electrooxidation Processes at Gold Single Crystal Surfaces Using Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 7648-7651.	6.6	118
5	Promising anchoring groups for single-molecule conductance measurements. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23529-23539.	1.3	106
6	Single-molecule detection of dihydroazulene photo-thermal reaction using break junction technique. <i>Nature Communications</i> , 2017, 8, 15436.	5.8	106
7	Robust Organic Radical Molecular Junctions Using Acetylene Terminated Groups for C–Au Bond Formation. <i>Journal of the American Chemical Society</i> , 2018, 140, 1691-1696.	6.6	79
8	The promoting effect of water on the electroreduction of CO ₂ in acetonitrile. <i>Electrochimica Acta</i> , 2016, 189, 38-44.	2.6	57
9	Environment Matters: CO ₂ RR Electrocatalyst Performance Testing in a Gas-Fed Zero-Gap Electrolyzer. <i>ACS Catalysis</i> , 2020, 10, 13096-13108.	5.5	55
10	DNA-Grafted Supramolecular Polymers: Helical Ribbon Structures Formed by Self-Assembly of Pyrene-DNA Chimeric Oligomers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7934-7938.	7.2	52
11	Ferrocene-terminated alkanethiol self-assembled monolayers: An electrochemical and in situ surface-enhanced infra-red absorption spectroscopy study. <i>Electrochimica Acta</i> , 2013, 107, 33-44.	2.6	45
12	Transport Matters: Boosting CO ₂ Electroreduction in Mixtures of [BMIm][BF ₄]/Water by Enhanced Diffusion. <i>ChemPhysChem</i> , 2017, 18, 3153-3162.	1.0	39
13	A General and Facile Approach for the Electrochemical Reduction of Carbon Dioxide Inspired by Deep Eutectic Solvents. <i>ChemSusChem</i> , 2019, 12, 1635-1639.	3.6	36
14	Enhanced electrocatalytic CO formation from CO ₂ on nanostructured silver foam electrodes in ionic liquid/water mixtures. <i>Electrochimica Acta</i> , 2019, 306, 245-253.	2.6	35
15	Single Graphene Layer on Pt(111) Creates Confined Electrochemical Environment via Selective Ion Transport. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12883-12887.	7.2	32
16	Exploitation of desilylation chemistry in tailor-made functionalization on diverse surfaces. <i>Nature Communications</i> , 2015, 6, 6403.	5.8	29
17	An influence of pretreatment conditions on surface structure and reactivity of Pt(100) towards CO oxidation reaction. <i>Russian Journal of Electrochemistry</i> , 2012, 48, 259-270.	0.3	27
18	Electrochemical characterization of self-assembled ferrocene-terminated alkanethiol monolayers on low-index gold single crystal electrodes. <i>Electrochimica Acta</i> , 2013, 87, 770-778.	2.6	27

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19	Scanning probe microscopy of an electrode/ionic liquid interface. <i>Current Opinion in Electrochemistry</i> , 2017, 1, 59-65.	2.5	24
20	Stable anchoring chemistry for room temperature charge transport through graphite-molecule contacts. <i>Science Advances</i> , 2017, 3, e1602297.	4.7	23
21	Surface Structure Sensitivity of CO ₂ Electroreduction on Low-Index Gold Single Crystal Electrodes in Ionic Liquids. <i>ChemElectroChem</i> , 2018, 5, 748-752.	1.7	23
22	Specific Cation Adsorption: Exploring Synergistic Effects on CO ₂ Electroreduction in Ionic Liquids. <i>ChemElectroChem</i> , 2020, 7, 1897-1903.	1.7	23
23	Electrodeposition of lanthanides from ionic liquids and deep eutectic solvents. <i>Russian Chemical Reviews</i> , 2020, 89, 1463-1482.	2.5	22
24	Electrochemical scanning tunnelling spectroscopy of a ferrocene-modified n-Si(111)-surface: electrolyte gating and ambipolar FET behaviour. <i>Chemical Communications</i> , 2011, 47, 9807.	2.2	20
25	Tubes or sheets: divergent aggregation pathways of an amphiphilic 2,7-substituted pyrene trimer. <i>Chemical Communications</i> , 2015, 51, 16191-16193.	2.2	18
26	Initial stages of silver electrodeposition on single crystal electrodes from ionic liquids. <i>Electrochimica Acta</i> , 2019, 299, 320-329.	2.6	18
27	Structural aspects of redox-mediated electron tunneling. <i>Journal of Electroanalytical Chemistry</i> , 2011, 660, 302-308.	1.9	17
28	CO ₂ Electroreduction on Cu-Modified Platinum Single Crystal Electrodes in Aprotic Media. <i>Electrocatalysis</i> , 2015, 6, 42-50.	1.5	15
29	Covalent Modification of Highly Ordered Pyrolytic Graphite with a Stable Organic Free Radical by Using Diazonium Chemistry. <i>Chemistry - A European Journal</i> , 2017, 23, 1415-1421.	1.7	14
30	Electrodeposition of chromium on single-crystal electrodes from solutions of Cr(II) and Cr(III) salts in ionic liquids. <i>Journal of Electroanalytical Chemistry</i> , 2020, 860, 113892.	1.9	14
31	The promoting effect of water on the electrodeposition of Eu in a dicyanamide ionic liquid. <i>Electrochimica Acta</i> , 2021, 379, 138169.	2.6	12
32	Improving the lifetime of hybrid CoPc@MWCNT catalysts for selective electrochemical CO ₂ -to-CO conversion. <i>Journal of Catalysis</i> , 2022, 407, 198-205.	3.1	11
33	Oxo-functionalised mesoionic NHC nickel complexes for selective electrocatalytic reduction of CO ₂ to formate. <i>Green Chemistry</i> , 2021, 23, 3365-3373.	4.6	10
34	Underpotential Deposition of Silver on Au(111) from an Air- and Water-Stable Ionic Liquid Visualized by In-situ STM. <i>ChemElectroChem</i> , 2019, 6, 1149-1156.	1.7	8
35	Structural Changes of Au(111) Single-Crystal Electrode Surface in Ionic Liquids. <i>ChemElectroChem</i> , 2020, 7, 501-508.	1.7	8
36	Interfacial effects in the electro(co)deposition of Nd, Fe, and Nd-Fe from an ionic liquid with controlled amount of water. <i>Electrochimica Acta</i> , 2021, 398, 139342.	2.6	8

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37	DNA-Grafted Supramolecular Polymers: Helical Ribbon Structures Formed by Self-Assembly of Pyrene-DNA Chimeric Oligomers. <i>Angewandte Chemie</i> , 2015, 127, 8045-8049.	1.6	7
38	A redox-active radical as an effective nanoelectronic component: stability and electrochemical tunnelling spectroscopy in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27733-27737.	1.3	7
39	Pyrazolium Ionic Liquid Co-catalysts for the Electroreduction of CO ₂ . <i>ACS Applied Energy Materials</i> , 2018, , .	2.5	7
40	Single Graphene Layer on Pt(111) Creates Confined Electrochemical Environment via Selective Ion Transport. <i>Angewandte Chemie</i> , 2017, 129, 13063-13067.	1.6	1
41	Titelbild: DNA-Grafted Supramolecular Polymers: Helical Ribbon Structures Formed by Self-Assembly of Pyrene-DNA Chimeric Oligomers (<i>Angew. Chem.</i> 27/2015). <i>Angewandte Chemie</i> , 2015, 127, 7831-7831.	1.6	0