Alexander V Rudnev

List of Publications by Year
in descending order

41	1,647	304743 22	289244 40
papers	citations	h-index	g-index

44	44	44	2413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Break junction under electrochemical gating: testbed for single-molecule electronics. Chemical Society Reviews, 2015, 44, 889-901.	38.1	205
2	Electrochemical COâ„ Reduction â€“ A Critical View on Fundamentals, Materials and Applications. Chimia, 2015, 69, 769.	0.6	130
3	Electrochemical Control of Single-Molecule Conductance by Fermi-Level Tuning and Conjugation Switching. Journal of the American Chemical Society, 2014, 136, 17922-17925.	13.7	119
4	In Situ Monitoring of Electrooxidation Processes at Gold Single Crystal Surfaces Using Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2015, 137, 7648-7651.	13.7	118
5	Promising anchoring groups for single-molecule conductance measurements. Physical Chemistry Chemical Physics, 2014, 16, 23529-23539.	2.8	106
6	Single-molecule detection of dihydroazulene photo-thermal reaction using break junction technique. Nature Communications, 2017, 8, 15436.	12.8	106
7	Robust Organic Radical Molecular Junctions Using Acetylene Terminated Groups for Câ€“Au Bond Formation. Journal of the American Chemical Society, 2018, 140, 1691-1696.	13.7	79
8	The promoting effect of water on the electroreduction of CO 2 in acetonitrile. Electrochimica Acta, 2016, 189, 38-44.	5.2	57
9	Environment Matters: CO₂RR Electrocatalyst Performance Testing in a Gas-Fed Zero-Gap Electrolyzer. ACS Catalysis, 2020, 10, 13096-13108.	11.2	55
10	DNAâ€Crafted Supramolecular Polymers: Helical Ribbon Structures Formed by Selfâ€Assembly of Pyreneâ€“DNA Chimeric Oligomers. Angewandte Chemie - International Edition, 2015, 54, 7934-7938.	13.8	52
11	Ferrocene-terminated alkanethiol self-assembled monolayers: An electrochemical and in situ surface-enhanced infra-red absorption spectroscopy study. Electrochimica Acta, 2013, 107, 33-44.	5.2	45
12	Transport Matters: Boosting CO₂ Electroreduction in Mixtures of [BMIm][BF₄]/Water by Enhanced Diffusion. ChemPhysChem, 2017, 18, 3153-3162.	2.1	39
13	A General and Facile Approach for the Electrochemical Reduction of Carbon Dioxide Inspired by Deep Eutectic Solvents. ChemSusChem, 2019, 12, 1635-1639.	6.8	36
14	Enhanced electrocatalytic CO formation from CO2 on nanostructured silver foam electrodes in ionic liquid/water mixtures. Electrochimica Acta, 2019, 306, 245-253.	5.2	35
15	Single Graphene Layer on Pt(111) Creates Confined Electrochemical Environment via Selective Ion Transport. Angewandte Chemie - International Edition, 2017, 56, 12883-12887.	13.8	32
16	Exploitation of desilylation chemistry in tailor-made functionalization on diverse surfaces. Nature Communications, 2015, 6, 6403.	12.8	29
17	An influence of pretreatment conditions on surface structure and reactivity of Pt(100) towards CO oxidation reaction. Russian Journal of Electrochemistry, 2012, 48, 259-270.	0.9	27
18	Electrochemical characterization of self-assembled ferrocene-terminated alkanethiol monolayers on low-index gold single crystal electrodes. Electrochimica Acta, 2013, 87, 770-778.	5.2	27

#	Article	IF	Citations
19	Scanning probe microscopy of an electrode/ionic liquid interface. Current Opinion in Electrochemistry, 2017, 1, 59-65.	4.8	24
20	Stable anchoring chemistry for room temperature charge transport through graphite-molecule contacts. Science Advances, 2017, 3, e1602297.	10.3	23
21	Surface Structure Sensitivity of CO₂ Electroreduction on Lowâ€Index Gold Single Crystal Electrodes in Ionic Liquids. ChemElectroChem, 2018, 5, 748-752.	3.4	23
22	Specific Cation Adsorption: Exploring Synergistic Effects on CO₂ Electroreduction in Ionic Liquids. ChemElectroChem, 2020, 7, 1897-1903.	3.4	23
23	Electrodeposition of lanthanides from ionic liquids and deep eutectic solvents. Russian Chemical Reviews, 2020, 89, 1463-1482.	6.5	22
24	Electrochemical scanning tunnelling spectroscopy of a ferrocene-modified n-Si(111)-surface: electrolyte gating and ambipolar FET behaviour. Chemical Communications, 2011, 47, 9807.	4.1	20
25	Tubes or sheets: divergent aggregation pathways of an amphiphilic 2,7-substituted pyrene trimer. Chemical Communications, 2015, 51, 16191-16193.	4.1	18
26	Initial stages of silver electrodeposition on single crystal electrodes from ionic liquids. Electrochimica Acta, 2019, 299, 320-329.	5.2	18
27	Structural aspects of redox-mediated electron tunneling. Journal of Electroanalytical Chemistry, 2011, 660, 302-308.	3.8	17
28	CO2 Electroreduction on Cu-Modified Platinum Single Crystal Electrodes in Aprotic Media. Electrocatalysis, 2015, 6, 42-50.	3.0	15
29	Covalent Modification of Highly Ordered Pyrolytic Graphite with a Stable Organic Free Radical by Using Diazonium Chemistry. Chemistry - A European Journal, 2017, 23, 1415-1421.	3.3	14
30	Electrodeposition of chromium on single-crystal electrodes from solutions of Cr(II) and Cr(III) salts in ionic liquids. Journal of Electroanalytical Chemistry, 2020, 860, 113892.	3.8	14
31	The promoting effect of water on the electrodeposition of Eu in a dicyanamide ionic liquid. Electrochimica Acta, 2021, 379, 138169.	5.2	12
32	Improving the lifetime of hybrid CoPc@MWCNT catalysts for selective electrochemical CO2-to-CO conversion. Journal of Catalysis, 2022, 407, 198-205.	6.2	11
33	Oxo-functionalised mesoionic NHC nickel complexes for selective electrocatalytic reduction of CO₂ to formate. Green Chemistry, 2021, 23, 3365-3373.	9.0	10
34	Underpotential Deposition of Silver on Au(111) from an Airâ€and Waterâ€Stable Ionic Liquid Visualized by Inâ€Situ STM. ChemElectroChem, 2019, 6, 1149-1156.	3.4	8
35	Structural Changes of Au(111) Singleâ€Crystal Electrode Surface in Ionic Liquids. ChemElectroChem, 2020, 7, 501-508.	3.4	8
36	Interfacial effects in the electro(co)deposition of Nd, Fe, and Nd-Fe from an ionic liquid with controlled amount of water. Electrochimica Acta, 2021, 398, 139342.	5.2	8

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37	DNAâ€Grafted Supramolecular Polymers: Helical Ribbon Structures Formed by Selfâ€Assembly of Pyreneâ€“DNA Chimeric Oligomers. Angewandte Chemie, 2015, 127, 8045-8049.	2.0	7
38	A redox-active radical as an effective nanoelectronic component: stability and electrochemical tunnelling spectroscopy in ionic liquids. Physical Chemistry Chemical Physics, 2016, 18, 27733-27737.	2.8	7
39	Pyrazolium Ionic Liquid Co-catalysts for the Electroreduction of CO2. ACS Applied Energy Materials, 2018, , .	5.1	7
40	Single Graphene Layer on Pt(111) Creates Confined Electrochemical Environment via Selective Ion Transport. Angewandte Chemie, 2017, 129, 13063-13067.	2.0	1
41	Titelbild: DNA-Grafted Supramolecular Polymers: Helical Ribbon Structures Formed by Self-Assembly of Pyrene-DNA Chimeric Oligomers (Angew. Chem. 27/2015). Angewandte Chemie, 2015, 127, 7831-7831.	2.0	0