

Veerabhadrrao Kaliginedi

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,765
citations

516561

16
h-index

677027

22
g-index

24
all docs

24
docs citations

24
times ranked

2195
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations between Molecular Structure and Single-Junction Conductance: A Case Study with Oligo(phenylene-ethynylene)-Type Wires. <i>Journal of the American Chemical Society</i> , 2012, 134, 5262-5275.	6.6	279
2	Single-Molecule Conductance of Functionalized Oligoynes: Length Dependence and Junction Evolution. <i>Journal of the American Chemical Society</i> , 2013, 135, 12228-12240.	6.6	277
3	A quantum circuit rule for interference effects in single-molecule electrical junctions. <i>Nature Communications</i> , 2015, 6, 6389.	5.8	164
4	Trimethylsilyl-Terminated Oligo(phenylene ethynylene)s: An Approach to Single-Molecule Junctions with Covalent Au-C Ćf-Bonds. <i>Journal of the American Chemical Society</i> , 2012, 134, 19425-19431.	6.6	163
5	Charge Transport in Photoswitchable Dimethyldihydropyrene-Type Single-Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2013, 135, 5974-5977.	6.6	142
6	Electrochemical CO ₂ Reduction – A Critical View on Fundamentals, Materials and Applications. <i>Chimia</i> , 2015, 69, 769.	0.3	130
7	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
8	Promising anchoring groups for single-molecule conductance measurements. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23529-23539.	1.3	106
9	Probing the chemical state of tin oxide NP catalysts during CO ₂ electroreduction: A complementary operando approach. <i>Nano Energy</i> , 2018, 53, 828-840.	8.2	71
10	Humidity-controlled rectification switching in ruthenium-complex molecular junctions. <i>Nature Nanotechnology</i> , 2018, 13, 117-121.	15.6	68
11	Highly-effective gating of single-molecule junctions: an electrochemical approach. <i>Chemical Communications</i> , 2014, 50, 15975-15978.	2.2	53
12	Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond. <i>Nanoscale</i> , 2015, 7, 17685-17692.	2.8	32
13	Exploitation of desilylation chemistry in tailor-made functionalization on diverse surfaces. <i>Nature Communications</i> , 2015, 6, 6403.	5.8	29
14	Synthesis and Single-Molecule Conductance Study of Redox-Active Ruthenium Complexes with Pyridyl and Dihydrobenzo[<i>b</i>]thiophene Anchoring Groups. <i>Chemistry - A European Journal</i> , 2016, 22, 12732-12740.	1.7	26
15	Conductance in a bis-terpyridine based single molecular breadboard circuit. <i>Chemical Science</i> , 2017, 8, 1576-1591.	3.7	25
16	Stable anchoring chemistry for room temperature charge transport through graphite-molecule contacts. <i>Science Advances</i> , 2017, 3, e1602297.	4.7	23
17	Quantum Circuit Rules for Molecular Electronic Systems: Where Are We Headed Based on the Current Understanding of Quantum Interference, Thermoelectric, and Molecular Spintronics Phenomena?. <i>Nano Letters</i> , 2021, 21, 8532-8544.	4.5	16
18	Kinetic parameters for the reaction of hydroxyl radical with CH ₃ OCH ₂ F (HFE-161) in the temperature range of 200–400 K: Transition state theory and Ab initio calculations. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1066-1077.	1.0	12

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19	Electron transport through catechol-functionalized molecular rods. <i>Electrochimica Acta</i> , 2013, 110, 709-717.	2.6	11
20	Modulation of Excess Electron Transfer through LUMO Gradients in DNA Containing Phenanthrenyl Base Surrogates. <i>Chemistry - A European Journal</i> , 2017, 23, 2022-2025.	1.7	8
21	Modulating the charge transport in metal-molecule-metal junctions via electrochemical gating. <i>Electrochimica Acta</i> , 2021, 388, 138540.	2.6	6
22	Fine-tuning the DNA conductance by intercalation of drug molecules. <i>Physical Review E</i> , 2021, 103, 032411.	0.8	5
23	TiO ₂ nanocontainers and nanospheres as photocatalysts for CO ₂ reduction and photoelectrochemical water splitting: structural modification. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s78-s79.	0.0	0