

Abdulrahiman Nijamudheen

List of Publications by Year in descending order

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331670

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times ranked

2110
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#	ARTICLE	IF	CITATIONS
1	S-Doped MoP Nanoporous Layer Toward High-Efficiency Hydrogen Evolution in pH-Universal Electrolyte. <i>ACS Catalysis</i> , 2019, 9, 651-659.	11.2	167
2	Gold-Catalyzed Cross-Coupling Reactions: An Overview of Design Strategies, Mechanistic Studies, and Applications. <i>Chemistry - A European Journal</i> , 2020, 26, 1442-1487.	3.3	128
3	Electronic and Chemical Properties of Germanene: The Crucial Role of Buckling. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3802-3809.	3.1	125
4	Stabilizing polymer electrolytes in high-voltage lithium batteries. <i>Nature Communications</i> , 2019, 10, 3091.	12.8	98
5	Molecular Balances Based on Aliphatic CH ^{δ+} and Lone-Pair ^{δ-} Interactions. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1493-1496.	4.6	78
6	Understanding the Mechanisms of Unusually Fast H ₂ , C ₂ H ₂ , and C ₂ H ₄ Bond Reductive Eliminations from Gold(III) Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 14650-14658.	3.3	48
7	Criticality of Symmetry in Rational Design of Chalcogenide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 248-257.	4.6	43
8	Phenalenyl in a Different Role: Catalytic Activation through the Nonbonding Molecular Orbital. <i>ACS Catalysis</i> , 2014, 4, 4307-4319.	11.2	40
9	Odd-even oscillations in structural and optical properties of gold clusters. <i>Computational and Theoretical Chemistry</i> , 2010, 945, 93-96.	1.5	36
10	Oxidation Reactions of Thymol: A Pulse Radiolysis and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2013, 117, 291-299.	2.5	36
11	Why Does Gold(III) Porphyrin Act as a Selective Catalyst in the Cycloisomerization of Allenones?. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2187-2195.	3.1	33
12	Excited-State Dynamics in Two-Dimensional Heterostructures: SiR/TiO ₂ and GeR/TiO ₂ (R = H, Me) as Promising Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6520-6532.	3.1	33
13	Topochemical Transformations of CaX ₂ (X=C, Si, Ge) to Form Free-Standing Two-Dimensional Materials. <i>Chemistry - A European Journal</i> , 2015, 21, 18454-18460.	3.3	31
14	Direct and Autocatalytic Reductive Elimination from Gold Complexes ([₃ (Ph) ₃ P]Au(Ar)(CF ₃) ₃ (X)], X=F, Cl, Br, I): The Key Role of Halide Ligands. <i>Chemistry - A European Journal</i> , 2017, 23, 4169-4179.	3.3	31
15	Janus all-cis-1,2,3,4,5,6-Hexafluorocyclohexane: A Molecular Motif for Aggregation-Induced Enhanced Polarization. <i>ChemPhysChem</i> , 2016, 17, 2373-2381.	2.1	29
16	Mechanism for C-I Bond Dissociation in Iodoethane, Iodobenzene, and Iodoethene for the C-C Cross Coupling Reactions over Gold Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21433-21440.	3.1	28
17	Half-sandwich Ru(⁶ -C ₆ H ₆) complexes with chiral aroylthioureas for enhanced asymmetric transfer hydrogenation of ketones: experimental and theoretical studies. <i>Catalysis Science and Technology</i> , 2015, 5, 4790-4799.	4.1	28
18	Mechanistic insights into the synergistic catalysis by Au(ⁱ), Ga(ⁱⁱⁱ), and counterions in the Nakamura reaction. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7412-7420.	2.8	28

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19	Tip enhanced Raman spectroscopy (TERS) as a probe for the buckling distortion in silicene. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8700.	2.8	26
20	Structures and Electronic Properties of Heavier Congeners of Disk-Like Molecules: (Si, Ge) Sulflower and (Si, Ge) Olympicene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12115-12120.	3.1	25
21	Metal encapsulation mediated planar to three dimensional structural transformation in Au-clusters: The venus flytrap effect. <i>Computational and Theoretical Chemistry</i> , 2011, 966, 133-136.	2.5	22
22	Aminoindolines versus Quinolines: Mechanistic Insights into the Reaction between 2-Aminobenzaldehydes and Terminal Alkynes in the Presence of Metals and Secondary Amines. <i>Journal of Organic Chemistry</i> , 2012, 77, 6179-6185.	3.2	22
23	Strain Control: Reversible H ₂ Activation and H ₂ /D ₂ Exchange in Pt Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 3023-3029.	4.0	18
24	Design of van der Waals Two-Dimensional Heterostructures from Facially Polarized Janus All-Cis 1,2,3,4,5,6-Hexafluorocyclohexane (C ₆ H ₆ F ₆). <i>Journal of Physical Chemistry C</i> , 2017, 121, 1752-1762.	3.1	18
25	Distinct Mechanisms and Hydricities of Cp*Ir-Based CO ₂ Hydrogenation Catalysts in Basic Water. <i>ACS Catalysis</i> , 2021, 11, 5776-5788.	11.2	17
26	Analyte Interactions with a New Ditopic Dansylamide-Nitrobenzoxadiazole Dyad: A Combined Photophysical, NMR, and Theoretical (DFT) Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9926-9937.	2.6	16
27	Impact of Surface Modification on the Lithium, Sodium, and Potassium Intercalation Efficiency and Capacity of Few-Layer Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19393-19401.	8.0	16
28	Efficient Iridium Catalysts for Formic Acid Dehydrogenation: Investigating the Electronic Effect on the Elementary Ir ²⁺ -Hydride Elimination and Hydrogen Formation Steps. <i>Inorganic Chemistry</i> , 2021, 60, 3410-3417.	4.0	16
29	Color Polymorphism: Understanding the Diverse Solid-State Packing and Color in Dimethyl-3,6-dichloro-2,5-dihydroxyterephthalate. <i>Chemistry - A European Journal</i> , 2014, 20, 3218-3224.	3.3	15
30	Cu/AlO(OH)-catalyzed formation of Ir ²⁺ -enamino ketones/esters under solvent, ligand and base free conditions - experimental and computational studies. <i>Catalysis Science and Technology</i> , 2012, 2, 1872.	4.1	14
31	Pattern Formation Due to Fluorination on Graphene Fragments: Structures, Hopping Behavior, and Magnetic Properties. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8506-8511.	2.5	14
32	Ion Interactions with a New Ditopic Naphthalimide-Based Receptor: A Photophysical, NMR and Theoretical (DFT) Study. <i>ChemPhysChem</i> , 2012, 13, 3882-3892.	2.1	13
33	Cycloaddition profile of pentafulvenes with 3-oxidopyrylium betaine: experimental and theoretical investigations. <i>Tetrahedron</i> , 2013, 69, 9751-9760.	1.9	13
34	Nernstian Li ⁺ intercalation into few-layer graphene and its use for the determination of K ⁺ co-intercalation processes. <i>Chemical Science</i> , 2021, 12, 559-568.	7.4	10
35	Photophysical and density functional studies on the interaction of a new nitrobenzoxadiazole derivative with anions. <i>Chemical Physics Letters</i> , 2012, 546, 90-95.	2.6	9
36	Influence of ring fusion stereochemistry on the stereochemical outcome in photo-induced Diels-Alder reaction of fused bicycloheptenone derivatives. <i>Tetrahedron</i> , 2014, 70, 9783-9790.	1.9	5

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37	Effects of Charging on the Structural and Electronic Properties of Aun Nanoclusters (n = 2-20). , 2011, , .		2
38	Frontispiece: Goldâ€Catalyzed Crossâ€Coupling Reactions: An Overview of Design Strategies, Mechanistic Studies, and Applications. Chemistry - A European Journal, 2020, 26, .	3.3	1