

Neeraj Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,449
citations

331670

21
h-index

345221

36
g-index

50
all docs

50
docs citations

50
times ranked

1768
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and analysis of prediction errors and error fusion based prior for prediction algorithms. <i>Multimedia Tools and Applications</i> , 2022, 81, 19835-19847.	3.9	1
2	High-Throughput Virtual Screening and Validation of a SARS-CoV-2 Main Protease Noncovalent Inhibitor. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 116-128.	5.4	54
3	Diverse Analysis of Data Mining and Machine Learning Algorithms to Secure Computer Network. <i>Wireless Personal Communications</i> , 2022, 124, 1033-1059.	2.7	5
4	Decoding the protein-ligand interactions using parallel graph neural networks. <i>Scientific Reports</i> , 2022, 12, 7624.	3.3	15
5	Accurate Prediction of Voltage of Battery Electrode Materials Using Attention-Based Graph Neural Networks. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26587-26594.	8.0	13
6	Quantum Mechanical Methods Predict Accurate Thermodynamics of Biochemical Reactions. <i>ACS Omega</i> , 2021, 6, 9948-9959.	3.5	12
7	High-throughput screening of the ReFRAME, Pandemic Box, and COVID Box drug repurposing libraries against SARS-CoV-2 nsp15 endoribonuclease to identify small-molecule inhibitors of viral activity. <i>PLoS ONE</i> , 2021, 16, e0250019.	2.5	27
8	Machine Learning Screening of Metal-Ion Battery Electrode Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53355-53362.	8.0	42
9	MiMiC: a bioinformatic approach for generation of synthetic communities from metagenomes. <i>Microbial Biotechnology</i> , 2021, 14, 1757-1770.	4.2	12
10	Deep Learning Coordinate-Free Quantum Chemistry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8978-8986.	2.5	5
11	Bayesian Inference for Integrating <i>Yarrowia lipolytica</i> Multiomics Datasets with Metabolic Modeling. <i>ACS Synthetic Biology</i> , 2021, 10, 2968-2981.	3.8	4
12	3D-Scaffold: A Deep Learning Framework to Generate 3D Coordinates of Drug-like Molecules with Desired Scaffolds. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12166-12176.	2.6	30
13	Artificial Intelligence for Autonomous Molecular Design: A Perspective. <i>Molecules</i> , 2021, 26, 6761.	3.8	11
14	Tuning Catalytic Bias of Hydrogen Gas Producing Hydrogenases. <i>Journal of the American Chemical Society</i> , 2020, 142, 1227-1235.	13.7	55
15	Explaining discrepancies in the study of maternal effects: the role of context and embryo. <i>Current Opinion in Behavioral Sciences</i> , 2020, 36, 185-192.	3.9	12
16	Revealing the Formation Energy-Exfoliation Energy-Structure Correlation of MAB Phases Using Machine Learning and DFT. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29424-29431.	8.0	15
17	Steroid receptors and their regulation in avian extraembryonic membranes provide a novel substrate for hormone mediated maternal effects. <i>Scientific Reports</i> , 2019, 9, 11501.	3.3	8
18	Mechanism of Catalytic O ₂ Reduction by Iron Tetraphenylporphyrin. <i>Journal of the American Chemical Society</i> , 2019, 141, 8315-8326.	13.7	99

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19	Revisiting mechanisms and functions of prenatal hormone-mediated maternal effects using avian species as a model. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180115.	4.0	90
20	Avian yolk androgens are metabolized instead of taken up by the embryo during the first days of incubation. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	16
21	Mechanistic Implications of Reductive Co ^{II} -C Bond Cleavage in B ₁₂ -Dependent Methylmalonyl CoA Mutase. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2210-2216.	2.6	15
22	Outer Coordination Sphere Proton Relay Base and Proximity Effects on Hydrogen Oxidation with Iron Electrocatalysts. <i>Organometallics</i> , 2019, 38, 1391-1396.	2.3	7
23	Circadian Proteomic Analysis Uncovers Mechanisms of Post-Transcriptional Regulation in Metabolic Pathways. <i>Cell Systems</i> , 2018, 7, 613-626.e5.	6.2	93
24	Gonadal steroid levels in rock pigeon eggs do not represent adequately maternal allocation. <i>Scientific Reports</i> , 2018, 8, 11213.	3.3	11
25	Prediction of Metabolite Concentrations, Rate Constants and Post-Translational Regulation Using Maximum Entropy-Based Simulations with Application to Central Metabolism of <i>Neurospora crassa</i> . <i>Processes</i> , 2018, 6, 63.	2.8	24
26	Early embryonic modification of maternal hormones differs systematically among embryos of different laying order: A study in birds. <i>General and Comparative Endocrinology</i> , 2018, 269, 53-59.	1.8	24
27	High-Throughput Simulations Reveal Membrane-Mediated Effects of Alcohols on MscL Gating. <i>Journal of the American Chemical Society</i> , 2017, 139, 2664-2671.	13.7	41
28	Controlling Proton Delivery through Catalyst Structural Dynamics. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13509-13513.	13.8	48
29	Density Based Outlier Detection (DBOD) in Data Mining: A Novel Approach. , 2016, , .		3
30	Homogenous Electrocatalytic Oxygen Reduction Rates Correlate with Reaction Overpotential in Acidic Organic Solutions. <i>ACS Central Science</i> , 2016, 2, 850-856.	11.3	150
31	Electronically excited states of cob(II)alamin: insights from CASSCF/XMCQDPT2 and TD-DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4513-4526.	2.8	15
32	A Novel Algorithm for Magic Squares. , 2016, , .		0
33	Increasing the rate of hydrogen oxidation without increasing the overpotential: a bio-inspired iron molecular electrocatalyst with an outer coordination sphere proton relay. <i>Chemical Science</i> , 2015, 6, 2737-2745.	7.4	40
34	Manganese-Based Molecular Electrocatalysts for Oxidation of Hydrogen. <i>ACS Catalysis</i> , 2015, 5, 6838-6847.	11.2	43
35	Mechanistic insights into hydride transfer for catalytic hydrogenation of CO ₂ with cobalt complexes. <i>Dalton Transactions</i> , 2014, 43, 11803-11806.	3.3	44
36	Mechanistic Insights for Formation of an Organometallic Co ^{II} -C Bond in the Methyl Transfer Reaction Catalyzed by Methionine Synthase. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16044-16057.	2.6	22

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37	Molecular Recognition of Aromatic Rings by Flavin: Electrostatics and Dispersion Determine Ring Positioning above Isoalloxazine. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12946-12952.	2.5	6
38	Electronic Structure of One-Electron-Oxidized Form of the Methylcobalamin Cofactor: Spin Density Distribution and Pseudo-Jahn-Teller Effect. <i>Inorganic Chemistry</i> , 2013, 52, 1762-1771.	4.0	14
39	Electronic structure of the S ₁ state in methylcobalamin: Insight from CASSCF/MCQDPT2, EOM-CCSD, and TD-DFT calculations. <i>Journal of Computational Chemistry</i> , 2013, 34, 987-1004.	3.3	53
40	Time Series ANN Approach for Weather Forecasting. <i>International Journal of Control Theory and Computer Modeling</i> , 2013, 3, 19-25.	0.2	15
41	Co ²⁺ /Co ⁺ Redox Tuning in Methyltransferases Induced by a Conformational Change at the Axial Ligand. <i>Inorganic Chemistry</i> , 2012, 51, 5533-5538.	4.0	15
42	Charge Separation Propensity of the Coenzyme B ₁₂ -Tyrosine Complex in Adenosylcobalamin-Dependent Methylmalonyl-CoA Mutase Enzyme. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1035-1038.	4.6	23
43	Bacillus subtilis SepF Binds to the C-Terminus of FtsZ. <i>PLoS ONE</i> , 2012, 7, e43293.	2.5	50
44	Role of the Axial Base in the Modulation of the Cob(I)alamin Electronic Properties: Insight from QM/MM, DFT, and CASSCF Calculations. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1541-1551.	5.3	31
45	Electronically Excited States of Vitamin B ₁₂ : Benchmark Calculations Including Time-Dependent Density Functional Theory and Correlated ab Initio Methods. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1280-1292.	2.5	94
46	Electronic Structure of Cofactor-Substrate Reactant Complex Involved in the Methyl Transfer Reaction Catalyzed by Cobalamin-Dependent Methionine Synthase. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6722-6731.	2.6	22
47	Enhancement of security in visual cryptography system using cover image share embedded security algorithm (CISEA)., 2011, .		5