David N Beratan

List of Publications by Year in descending order

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259 papers 18,597 citations

14124 69 h-index 128 g-index

271 all docs

271 docs citations

times ranked

271

15078 citing authors

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|----|--|-------------|-----------|
| 1 | Twisted molecular wires polarize spin currents at room temperature. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119 , . | 3.3 | 8 |
| 2 | Discovery of the Xenon–Protein Interactome Using Large-Scale Measurements of Protein Folding and Stability. Journal of the American Chemical Society, 2022, 144, 3925-3938. | 6.6 | 7 |
| 3 | Improving the efficiency of open-quantum-system simulations using matrix product states in the interaction picture. Physical Review A, 2022, 105, . | 1.0 | 5 |
| 4 | A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035. | 7.3 | 74 |
| 5 | Synthetic Control of Exciton Dynamics in Bioinspired Cofacial Porphyrin Dimers. Journal of the American Chemical Society, 2022, 144, 6298-6310. | 6.6 | 17 |
| 6 | Cofactor Dynamics Couples the Protein Surface to the Heme in Cytochrome <i>c</i> , Facilitating Electron Transfer. Journal of Physical Chemistry B, 2022, 126, 3522-3529. | 1.2 | 0 |
| 7 | Delocalization-Assisted Transport through Nucleic Acids in Molecular Junctions. Biochemistry, 2021, 60, 1368-1378. | 1.2 | 4 |
| 8 | Temperature Dependence of Charge and Spin Transfer in Azurin. Journal of Physical Chemistry C, 2021, 125, 9875-9883. | 1.5 | 26 |
| 9 | Why Do Most Aromatics Fail to Support Hole Hopping in the Cytochrome ⟨i⟩c⟨ i⟩ Peroxidase–Cytochrome ⟨i⟩c⟨ i⟩ Complex?. Journal of Physical Chemistry B, 2021, 125, 7763-7773. | 1.2 | 2 |
| 10 | Oxalate decarboxylase uses electron hole hopping for catalysis. Journal of Biological Chemistry, 2021, 297, 100857. | 1.6 | 5 |
| 11 | Efficient and reversible electron bifurcation with either normal or inverted potentials at the bifurcating cofactor. CheM, 2021, 7, 1870-1886. | 5. 8 | 6 |
| 12 | Electron ratcheting in self-assembled soft matter. Journal of Chemical Physics, 2021, 155, 055102. | 1.2 | 2 |
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| 14 | Energy transduction by reversible electron bifurcation. Current Opinion in Electrochemistry, 2021, 29, 100767. | 2.5 | 1 |
| 15 | Charge Transfer and Spin Dynamics in a Zinc Porphyrin Donor Covalently Linked to One or Two Naphthalenediimide Acceptors. Journal of Physical Chemistry A, 2021, 125, 825-834. | 1.1 | 6 |
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| 21 | Predicting Dexter Energy Transfer Interactions from Molecular Orbital Overlaps. Journal of Physical Chemistry C, 2020, 124, 18956-18960. | 1.5 | 15 |
| 22 | A robust bioderived wavelength-specific photosensor based on BLUF proteins. Sensors and Actuators B: Chemical, 2020, 310, 127838. | 4.0 | 4 |
| 23 | Autobiography of David N. Beratan. Journal of Physical Chemistry B, 2020, 124, 3441-3446. | 1.2 | 0 |
| 24 | Conductance and Configuration of Molecular Gold-Water-Gold Junctions under Electric Fields. Matter, 2020, 3, 166-179. | 5.0 | 21 |
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| 34 | Assessing Possible Mechanisms of Micrometer-Scale Electron Transfer in Heme-Free <i>Geobacter sulfurreducens</i> Pili. Journal of Physical Chemistry B, 2019, 123, 5035-5047. | 1.2 | 33 |
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