

Rosa Di Felice

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6114979/publications.pdf>

Version: 2024-02-01

83
papers

3,539
citations

147566

31
h-index

143772

57
g-index

87
all docs

87
docs citations

87
times ranked

4744
citing authors

#	ARTICLE	IF	CITATIONS
1	DNAsape: a method for the high-throughput prediction of DNA structural features on a genomic scale. <i>Nucleic Acids Research</i> , 2013, 41, W56-W62.	6.5	265
2	Long-range charge transport in single G-quadruplex DNA molecules. <i>Nature Nanotechnology</i> , 2014, 9, 1040-1046.	15.6	218
3	DFT Study of Cysteine Adsorption on Au(111). <i>Journal of Physical Chemistry B</i> , 2003, 107, 1151-1156.	1.2	200
4	Absorption Properties of Metal-Semiconductor Hybrid Nanoparticles. <i>ACS Nano</i> , 2011, 5, 4712-4719.	7.3	199
5	Adsorption modes of cysteine on Au(111): Thiolate, amino-thiolate, disulfide. <i>Journal of Chemical Physics</i> , 2004, 120, 4906-4914.	1.2	190
6	Electronic structure of single DNA molecules resolved by transverse scanning tunnelling spectroscopy. <i>Nature Materials</i> , 2008, 7, 68-74.	13.3	140
7	Mixing of Electronic States in Pentacene Adsorption on Copper. <i>Physical Review Letters</i> , 2007, 99, 046802.	2.9	132
8	Quantum annealing versus classical machine learning applied to a simplified computational biology problem. <i>Npj Quantum Information</i> , 2018, 4, .	2.8	126
9	A TDDFT Study of the Excited States of DNA Bases and Their Assemblies. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7129-7138.	1.2	112
10	Highly conductive self-assembled nanoribbons of coordination polymers. <i>Nature Nanotechnology</i> , 2010, 5, 110-115.	15.6	94
11	Polarizability of G4-DNA Observed by Electrostatic Force Microscopy Measurements. <i>Nano Letters</i> , 2007, 7, 981-986.	4.5	83
12	Ordered (3 Å ⁻¹ - 4) High-Density Phase of Methylthiolate on Au(111). <i>Journal of Physical Chemistry B</i> , 2004, 108, 16-20.	1.2	79
13	Ab initio study of model guanine assemblies: The role of π - π coupling and band transport. <i>Physical Review B</i> , 2001, 65, .	1.1	78
14	Control of DNA minor groove width and Fis protein binding by the purine 2-amino group. <i>Nucleic Acids Research</i> , 2013, 41, 6750-6760.	6.5	74
15	Simulation of Peptide-Surface Recognition. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1510-1519.	2.1	67
16	First Principles Effective Electronic Couplings for Hole Transfer in Natural and Size-Expanded DNA. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9402-9415.	1.2	64
17	Unraveling the Interaction between Histidine Side Chain and the Au(111) Surface: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13540-13545.	1.5	62
18	Hydroxyl-Rich β -Sheet Adhesion to the Gold Surface in Water by First-Principle Simulations. <i>Journal of the American Chemical Society</i> , 2010, 132, 4790-4795.	6.6	55

#	ARTICLE	IF	CITATIONS
19	Ab Initio Optical Absorption Spectra of Size-Expanded xDNA Base Assemblies. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14012-14021.	1.2	49
20	Stability and Migration of Metal Ions in G4-Wires by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26337-26348.	1.2	47
21	Towards a gauge invariant method for molecular chiroptical properties in TDDFT. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4481.	1.3	46
22	Conductive Nanostructures of MMX Chains. <i>Advanced Functional Materials</i> , 2010, 20, 1451-1457.	7.8	45
23	Metallicity in Individual MMX Chains. <i>Journal of the American Chemical Society</i> , 2008, 130, 5552-5562.	6.6	41
24	Protein-surface interactions: challenging experiments and computations. <i>Journal of Molecular Recognition</i> , 2010, 23, 259-262.	1.1	41
25	Porphyrin Intercalation in G4-DNA Quadruplexes by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13152-13160.	1.2	40
26	Electrical Conductivity in Platinum-Dimer Columns. <i>Inorganic Chemistry</i> , 2008, 47, 9736-9738.	1.9	39
27	A Density Functional Theory Study of Cytosine on Au(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 21366-21373.	1.5	38
28	Enthalpy-Entropy Tuning in the Adsorption of Nucleobases at the Au(111) Surface. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1707-1716.	2.3	36
29	Electronic Properties of Metal-Modified DNA Base Pairs. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14281-14290.	1.2	35
30	The interaction of peptides and proteins with nanostructures surfaces: a challenge for nanoscience. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 41, 86-94.	3.4	35
31	On the Magnetic Alignment of Metal Ions in a DNA-Mimic Double Helix. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15345-15348.	1.2	33
32	Interaction of Nucleic Acid Bases with the Au(111) Surface. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4552-4561.	2.3	33
33	Dielectric Functions of Semiconductor Nanoparticles from the Optical Absorption Spectrum: The Case of CdSe and CdS. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3776-3780.	1.5	31
34	Strain-Dependence of the Electronic Properties in Periodic Quadruple Helical G4-Wires. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22301-22307.	1.2	28
35	Electron Channels in Biomolecular Nanowires. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2509-2515.	1.2	27
36	Water-Mediated Electron Transfer between Protein Redox Centers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3774-3781.	1.2	27

#	ARTICLE	IF	CITATIONS
37	Scanning Tunneling Spectroscopy of Single DNA Molecules. ACS Nano, 2009, 3, 1651-1656.	7.3	27
38	Single-Molecule Folding Mechanism of an EF-Hand Neuronal Calcium Sensor. Structure, 2013, 21, 1812-1821.	1.6	27
39	Symmetry lowering of pentacene molecular states interacting with a Cu surface. Physical Review B, 2007, 76, .	1.1	26
40	Nature of the Interaction between Natural and Size-Expanded Guanine with Gold Clusters: A Density Functional Theory Study. Journal of Physical Chemistry C, 2012, 116, 24954-24961.	1.5	25
41	Fibrillation-prone conformations of the amyloid- β -42 peptide at the gold/water interface. Nanoscale, 2017, 9, 2279-2290.	2.8	25
42	Charge Transfer between [4Fe4S] Proteins and DNA Is Unidirectional: Implications for Biomolecular Signaling. Chem, 2019, 5, 122-137.	5.8	25
43	Role of the electronic properties of azurin active site in the electron-transfer process. International Journal of Quantum Chemistry, 2005, 102, 328-342.	1.0	24
44	CRISPR-Cas9 Mediated DNA Unwinding Detected Using Site-Directed Spin Labeling. ACS Chemical Biology, 2017, 12, 1489-1493.	1.6	24
45	Electronic Coupling Between Azurin and Gold at Different Protein/Substrate Orientations. Small, 2007, 3, 1431-1437.	5.2	22
46	van der Waals effects at molecule-metal interfaces. Physical Review B, 2014, 90, .	1.1	22
47	Atomic and Electronic Structure at Au/CdSe Interfaces. ACS Nano, 2008, 2, 2225-2236.	7.3	21
48	Combined effects of metal complexation and size expansion in the electronic structure of DNA base pairs. Journal of Chemical Physics, 2011, 134, 205102.	1.2	21
49	Electronic Structure of G4-DNA by Scanning Tunneling Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 22079-22084.	1.5	20
50	Optical Properties of Triplex DNA from Time-Dependent Density Functional Theory. Journal of Physical Chemistry B, 2012, 116, 10693-10702.	1.2	20
51	Energy Gap Reduction in DNA by Complexation with Metal Ions. Advanced Materials, 2011, 23, 4290-4294.	11.1	19
52	Electrical Behaviour of Heterobimetallic [MM μ 2(EtCS μ 2) μ 4] (MM μ 2=NiPd, NiPt, PdPt) and MM μ 2X μ Chain Polymers [PtM(EtCS μ 2) μ 4] (M=Ni, Pd). Chemistry - A European Journal, 2012, 18, 15476-15484.	1.7	19
53	Conformations of Human Telomeric G-Quadruplex Studied Using a Nucleotide-Independent Nitroxide Label. Biochemistry, 2016, 55, 360-372.	1.2	19
54	Optical spectra of nitride quantum dots: Quantum confinement and electron-hole coupling. Applied Physics Letters, 1999, 75, 3449-3451.	1.5	17

#	ARTICLE	IF	CITATIONS
55	Fingerprints of Bonding Motifs in DNA Duplexes of Adenine and Thymine Revealed from Circular Dichroism: Synchrotron Radiation Experiments and TDDFT Calculations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9614-9619.	1.2	17
56	Landscape of DNA binding signatures of myocyte enhancer factor-2B reveals a unique interplay of base and shape readout. <i>Nucleic Acids Research</i> , 2020, 48, 8529-8544.	6.5	17
57	Water Effects on Electron Transfer in Azurin Dimers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23796-23800.	1.2	16
58	Ab initio Study of the Structural, Tautomeric, Pairing, and Electronic Properties of Seleno-Derivatives of Thymine. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14465-14472.	1.2	15
59	Electron delocalization at the hybrid aromatic-thiol ⁻ -Cu(100)interface. <i>Physical Review B</i> , 2004, 70, .	1.1	13
60	The Structure of Neuronal Calcium Sensor-1 in Solution Revealed by Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2013, 8, e74383.	1.1	12
61	Is the G-Quadruplex an Effective Nanoconductor for Ions?. <i>Journal of Physical Chemistry B</i> , 2014, 118, 864-872.	1.2	12
62	The RNA Polymerase $\hat{\pm}$ Subunit Recognizes the DNA Shape of the Upstream Promoter Element. <i>Biochemistry</i> , 2020, 59, 4523-4532.	1.2	12
63	Effects of G-Quadruplex Topology on Electronic Transfer Integrals. <i>Nanomaterials</i> , 2016, 6, 184.	1.9	10
64	Protein-Mutation-Induced Conformational Changes of the DNA and Nuclease Domain in CRISPR/Cas9 Systems by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2168-2179.	1.2	10
65	Adsorption Mechanisms of Nucleobases on the Hydrated Au(111) Surface. <i>Langmuir</i> , 2018, 34, 14749-14756.	1.6	9
66	Dynamical Treatment of Charge Transfer through Duplex Nucleic Acids Containing Modified Adenines. <i>ACS Nano</i> , 2013, 7, 9396-9406.	7.3	8
67	Effects of Structural Dynamics on Charge Carrier Transfer in B-DNA: A Combined MD and RT-TDDFT Study. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3986-4003.	1.2	8
68	Interaction of DNA Bases with Gold Substrates. <i>Journal of Self-Assembly and Molecular Electronics (SAME)</i> , 0, , .	0.0	7
69	Investigating the Chinese postman problem on a quantum annealer. <i>Quantum Machine Intelligence</i> , 2021, 3, 1.	2.7	7
70	Azurin for Biomolecular Electronics: a Reliability Study. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 6864-6866.	0.8	6
71	Surface functionalization through adsorption of organic molecules. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 305018.	0.7	6
72	Reactivity of the ZnS(101 $\bar{1}$...0) Surface to Small Organic Ligands by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16034-16041.	1.5	6

#	ARTICLE	IF	CITATIONS
73	Computational approach to study electron-transfer proteins: Azurin for bio-molecular devices. <i>Computer Physics Communications</i> , 2005, 169, 9-13.	3.0	5
74	LCAO Electronic Structure of Nucleic Acid Bases and Other Heterocycles and Transfer Integrals in B-DNA, Including Structural Variability. <i>Materials</i> , 2021, 14, 4930.	1.3	4
75	DNA-Based Nanoelectronics. , 2008, , 141-185.		4
76	Electronic Structure Calculations for Nanomolecular Systems. , 2006, , 77-116.		3
77	Charge Transfer Rates at a Bio-Inorganic Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18820-18828.	1.5	3
78	Theoretical analysis of the optical spectra of In _x Ga _{1-x} N quantum dots in In _y Ga _{1-y} N layers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 934-938.	1.3	2
79	Electronic structure of DNA derivatives and mimics by density functional theory. , 2006, , 485-507.		2
80	Optical Enhancement in Heteroleptic Ru(II) Polypyridyl Complexes Using Electron-Donor Ancillary Ligands. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8747-8755.	1.5	2
81	Molecular Simulations have Boosted Knowledge of CRISPR/Cas9: A Review. <i>Journal of Self-Assembly and Molecular Electronics (SAME)</i> , 2019, 7, 45-72.	0.0	2
82	DNA-Based Nanoelectronics. <i>Nanostructure Science and Technology</i> , 2009, , 43-79.	0.1	2
83	DNA from First Principles. , 2016, , 800-819.		0