

Francoise Remacle

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

269
papers

6,764
citations

42
h-index

70
g-index

291
ext. papers

7,401
ext. citations

4.9
avg, IF

6.05
L-index

#	Paper	IF	Citations
269	Compacting the density matrix in quantum dynamics: Singular value decomposition of the surprisal and the dominant constraints for anharmonic systems. <i>Journal of Chemical Physics</i> , 2021 , 155, 204110	3.9	0
268	Ellipticity controlled dissociative double ionization of ethane by strong fields. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23537-23543	3.6	2
267	Electronic Coherences Steer the Strong Isotope Effect in the Ultrafast Jahn-Teller Structural Rearrangement of Methane Cation upon Tunnel Ionization. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 9495-9507	2.8	1
266	Identification of an ultrafast internal conversion pathway of pyrazine by time-resolved vacuum ultraviolet photoelectron spectrum simulations. <i>Journal of Chemical Physics</i> , 2021 , 154, 224304	3.9	2
265	The density matrix via few dominant observables: The quantum interference in the isotope effect for atto-pumped N. <i>Journal of Chemical Physics</i> , 2021 , 155, 024109	3.9	2
264	DNA-based constitutional dynamic networks as functional modules for logic gates and computing circuit operations. <i>Chemical Science</i> , 2021 , 12, 5473-5483	9.4	4
263	Ultrafast fs coherent excitonic dynamics in CdSe quantum dots assemblies addressed and probed by 2D electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2021 , 154, 014301	3.9	4
262	Ultrafast geometrical reorganization of a methane cation upon sudden ionization: an isotope effect on electronic non-equilibrium quantum dynamics. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12051-12059	3.6	7
261	Chirality of a rhodamine heterodimer linked to a DNA scaffold: an experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7516-7523	3.6	0
260	Correlated electron-nuclear motion during non-adiabatic transitions in LiH and its isotopomers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 134001	1.3	5
259	Room-Temperature Inter-Dot Coherent Dynamics in Multilayer Quantum Dot Materials. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16222-16231	3.8	13
258	Coherent Exciton Dynamics in Ensembles of Size-Dispersed CdSe Quantum Dot Dimers Probed via Ultrafast Spectroscopy: A Quantum Computational Study. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1328	2.6	8
257	Parallel Quantum Computation of Vibrational Dynamics. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	2
256	Surprisal of a quantum state: Dynamics, compact representation, and coherence effects. <i>Journal of Chemical Physics</i> , 2020 , 153, 214105	3.9	3
255	Selective bond formation triggered by short optical pulses: quantum dynamics of a four-center ring closure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22302-22313	3.6	7
254	Thermodynamic energetics underlying genomic instability and whole-genome doubling in cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18880-18890	11.5	2
253	Quantum Device Emulates the Dynamics of Two Coupled Oscillators. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6990-6995	6.4	9

252	Massively parallel classical logic via coherent dynamics of an ensemble of quantum systems with dispersion in size. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21022-21030	11.5	7
251	Intracellular redox potential is correlated with miRNA expression in MCF7 cells under hypoxic conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19753-19759	11.5	9
250	Sub-Femtosecond Stark Control of Molecular Photoexcitation with Near Single-Cycle Pulses. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 742-747	6.4	7
249	Consecutive feedback-driven constitutional dynamic networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2843-2848	11.5	25
248	Understanding chemical interaction between phosphonate-derivative molecules and a silver surface cluster in SERS: a combined experimental and computational approach. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22180-22187	3.6	5
247	Temporal and spatially resolved imaging of the correlated nuclear-electronic dynamics and of the ionized photoelectron in a coherently electronically highly excited vibrating LiH molecule. <i>Journal of Chemical Physics</i> , 2019 , 151, 134310	3.9	8
246	Time resolved mechanism of the isotope selectivity in the ultrafast light induced dissociation in N. <i>Journal of Chemical Physics</i> , 2019 , 151, 114308	3.9	3
245	Metabolic, Physiological, and Transcriptomics Analysis of Batch Cultures of the Green Microalga Grown on Different Acetate Concentrations. <i>Cells</i> , 2019 , 8,	7.9	11
244	Quantum Phenomena in Nanomaterials: Coherent Superpositions of Fine Structure States in CdSe Nanocrystals at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31286-31293	3.8	20
243	Angle-resolved photoelectron spectroscopy and scanning tunnelling spectroscopy studies of the endohedral fullerene Li@C. <i>Nanoscale</i> , 2019 , 11, 2668-2678	7.7	12
242	Fast Energy Transfer in CdSe Quantum Dot Layered Structures: Controlling Coupling with Covalent-Bond Organic Linkers. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5753-5758	3.8	18
241	Propagation of nonstationary electronic and nuclear states: attosecond dynamics in LiF. <i>Molecular Physics</i> , 2018 , 116, 2524-2532	1.7	2
240	On the fly quantum dynamics of electronic and nuclear wave packets. <i>Chemical Physics Letters</i> , 2018 , 699, 155-161	2.5	4
239	Gas-Phase Photoluminescence and Photodissociation of Silver-Capped Hexagold Clusters. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 5799-5810	2.8	7
238	Ultrafast nonradiative transition pathways in photo-excited pyrazine: Ab initio analysis of time-resolved vacuum ultraviolet photoelectron spectrum. <i>Chemical Physics</i> , 2018 , 515, 704-709	2.3	8
237	Multivalued Logic at the Nanoscale. <i>Natural Computing Series</i> , 2018 , 295-318	2.5	2
236	Computing by Non-linear Optical Molecular Response. <i>Natural Computing Series</i> , 2018 , 45-53	2.5	
235	Surprisal analysis of the transcriptomic response of the green microalga <i>Chlamydomonas</i> to the addition of acetate during day/night cycles. <i>Chemical Physics</i> , 2018 , 514, 154-163	2.3	2

234	Surprisal analysis of genome-wide transcript profiling identifies differentially expressed genes and pathways associated with four growth conditions in the microalga <i>Chlamydomonas</i> . <i>PLoS ONE</i> , 2018 , 13, e0195142	3.7	6
233	RNA-seq data and surprisal analysis of mutant and control strain of the green microalga during day/night cycles. <i>Data in Brief</i> , 2018 , 21, 351-353	1.2	
232	This special thematic issue of chemical physics Energy and entropy of change: From elementary processes to biology celebrates the 80th birthday of Prof. Raphael D. Levine, known as Raphy. <i>Chemical Physics</i> , 2018 , 514, 1-3	2.3	
231	Time-dependent view of an isotope effect in electron-nuclear nonequilibrium dynamics with applications to N. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5890-5895	11.5	11
230	Personalized disease signatures through information-theoretic compaction of big cancer data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7694-7699	11.5	14
229	Intercommunication of DNA-Based Constitutional Dynamic Networks. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8721-8731	16.4	32
228	Nuclear Motion Driven Ultrafast Photodissociative Charge Transfer of the PENNA Cation: An Experimental and Computational Study. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1442-1447	2.8	10
227	A Probabilistic Finite State Logic Machine Realized Experimentally on a Single Dopant Atom. <i>Nano Letters</i> , 2017 , 17, 1846-1852	11.5	7
226	Implementation of Multivariable Logic Functions in Parallel by Electrically Addressing a Molecule of Three Dopants in Silicon. <i>ChemPhysChem</i> , 2017 , 18, 1790-1797	3.2	3
225	Implementation of Probabilistic Algorithms by Multi-chromophoric Molecular Networks with Application to Multiple Travelling Pathways. <i>ChemPhysChem</i> , 2017 , 18, 1782-1789	3.2	2
224	A new electron-ion coincidence 3D momentum-imaging method and its application in probing strong field dynamics of 2-phenylethyl-N, N-dimethylamine. <i>Journal of Chemical Physics</i> , 2017 , 147, 013920	3.9	10
223	Continuous variables logic coupled automata using a DNAzyme cascade with feedback. <i>Chemical Science</i> , 2017 , 8, 2161-2168	9.4	21
222	Spatial and temporal control of populations, branching ratios, and electronic coherences in LiH by a single one-cycle infrared pulse. <i>Physical Review A</i> , 2017 , 95,	2.6	16
221	Optical activity of the super-atom molecular orbital (SAMO) states in Li@C60+ conformers 2017 ,		1
220	The Role of Super-Atom Molecular Orbitals in Doped Fullerenes in a Femtosecond Intense Laser Field. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 032017	0.3	
219	Low-lying, Rydberg states of polycyclic aromatic hydrocarbons (PAHs) and cyclic alkanes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24090-24099	3.6	11
218	Where Ion Mobility and Molecular Dynamics Meet To Unravel the (Un)Folding Mechanisms of an Oligorotaxane Molecular Switch. <i>ACS Nano</i> , 2017 , 11, 10253-10263	16.7	18
217	The Role of Super-Atom Molecular Orbitals in Doped Fullerenes in a Femtosecond Intense Laser Field. <i>Scientific Reports</i> , 2017 , 7, 121	4.9	6

216	Coherent electronic and nuclear dynamics in a rhodamine heterodimer-DNA supramolecular complex. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23043-23051	3.6	20
215	Photoinduced Ultrafast Charge Transfer and Charge Migration in Small Gold Clusters Passivated by a Chromophoric Ligand. <i>Nano Letters</i> , 2017 , 17, 5672-5681	11.5	5
214	Ultrafast 25-fs relaxation in highly excited states of methyl azide mediated by strong nonadiabatic coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E11072-E11081	11.5	12
213	Pumping and probing vibrational modulated coupled electronic coherence in HCN using short UV fs laser pulses: a 2D quantum nuclear dynamical study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19837-19846	2.6	3
212	Electronic states and valley-orbit coupling in linear and planar molecules formed by coupled P donors in silicon. <i>Physical Review B</i> , 2017 , 95,	3.3	6
211	Electronic and Nuclear Dynamics for a Non-Equilibrium Electronic State: The Ultrafast Pumping of N ₂ . <i>Progress in Theoretical Chemistry and Physics</i> , 2017 , 195-208	0.6	2
210	Controlling Coherent Quantum Nuclear Dynamics in LiH by Ultra Short IR Atto Pulses. <i>Springer Series in Chemical Physics</i> , 2017 , 41-65	0.3	1
209	Multivariate Surprisal Analysis of Gene Expression Levels. <i>Entropy</i> , 2016 , 18, 445	2.8	3
208	Experimental and Theoretical Study of the Reactivity of Gold Nanoparticles Towards Benzimidazole-2-ylidene Ligands. <i>Chemistry - A European Journal</i> , 2016 , 22, 10446-58	4.8	27
207	Transition from SAMO to Rydberg State Ionization in C in Femtosecond Laser Fields. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4677-4682	6.4	13
206	Quantum Nuclear Dynamics Pumped and Probed by Ultrafast Polarization Controlled Steering of a Coherent Electronic State in LiH. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 3343-52	2.8	20
205	Probing in Space and Time the Nuclear Motion Driven by Nonequilibrium Electronic Dynamics in Ultrafast Pumped N ₂ . <i>Journal of Physical Chemistry A</i> , 2016 , 120, 3335-42	2.8	11
204	Time-efficient computation of the electronic structure of the C ₆₀ super-atom molecular orbital (SAMO) states in TDDFT 2016 ,		3
203	Operation of a quantum dot in the finite-state machine mode: Single-electron dynamic memory. <i>Journal of Applied Physics</i> , 2016 , 120, 024503	2.5	2
202	Force measurements reveal how small binders perturb the dissociation mechanisms of DNA duplex sequences. <i>Nanoscale</i> , 2016 , 8, 11718-26	7.7	8
201	Coherent electronic wave packet motion in C(60) controlled by the waveform and polarization of few-cycle laser fields. <i>Physical Review Letters</i> , 2015 , 114, 123004	7.4	46
200	Computational Benchmarking for Ultrafast Electron Dynamics: Wave Function Methods vs Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2221-33	6.4	10
199	Parallel and Multivalued Logic by the Two-Dimensional Photon-Echo Response of a RhodamineDNA Complex. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1714-8	6.4	20

198	Ternary DNA computing using 3 B multiplication matrices. <i>Chemical Science</i> , 2015 , 6, 1288-1292	9.4	36
197	Metabolomic analysis of the green microalga <i>Chlamydomonas reinhardtii</i> cultivated under day/night conditions. <i>Journal of Biotechnology</i> , 2015 , 215, 20-6	3.7	23
196	Statistical thermodynamics of transcription profiles in normal development and tumorigenesis in cohorts of patients. <i>European Biophysics Journal</i> , 2015 , 44, 709-26	1.9	8
195	Measurement and laser control of attosecond charge migration in ionized iodoacetylene. <i>Science</i> , 2015 , 350, 790-5	33.3	352
194	Multivalley envelope function equations and effective potentials for phosphorus impurity in silicon. <i>Physical Review B</i> , 2015 , 92,	3.3	8
193	Information processing in parallel through directionally resolved molecular polarization components in coherent multidimensional spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 143, 064106	3.9	8
192	Ultrafast dynamics in the bifunctional PENNA neutral and cation molecule induced by ultrashort photoexcitation. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 112068	0.3	
191	Photoinduced Ultrafast Electronic Dynamics in Polyatomic Molecules: A time-dependent computational study. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 112066	0.3	1
190	Attosecond charge migration and its laser control. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 112136	3.3	1
189	An Atomistic View of DNA Dynamics and Its Interaction with Small Binders: Insights from Molecular Dynamics and Principal Component Analysis. <i>Advances in Atom and Single Molecule Machines</i> , 2015 , 17-33	0	1
188	Relative Photoionization Cross Sections of Super-Atom Molecular Orbitals (SAMOs) in C60. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 11504-8	2.8	11
187	Charge Redistribution Effects on the UV-Vis Spectra of Small Ligated Gold Clusters: a Computational Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10969-10980	3.8	30
186	Electronic states and wavefunctions of diatomic donor molecular ions in silicon: multi-valley envelope function theory. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 065302	1.8	8
185	AttoPhotoChemistry. Probing ultrafast electron dynamics by the induced nuclear motion: The prompt and delayed predissociation of N ₂ . <i>Chemical Physics Letters</i> , 2014 , 601, 45-48	2.5	9
184	Glioblastoma cellular architectures are predicted through the characterization of two-cell interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6521-6	11.5	44
183	A full-adder based on reconfigurable DNA-hairpin inputs and DNAzyme computing modules. <i>Chemical Science</i> , 2014 , 5, 3381	9.4	69
182	DNAzyme-based 2:1 and 4:1 multiplexers and 1:2 demultiplexer. <i>Chemical Science</i> , 2014 , 5, 1074	9.4	74
181	Electronic dynamics by ultrafast pump photoelectron detachment probed by ionization: a dynamical simulation of negative-neutral-positive in LiH(-). <i>Journal of Physical Chemistry A</i> , 2014 , 118, 6721-9	2.8	14

180	Atomistic account of structural and dynamical changes induced by small binders in the double helix of a short DNA. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14070-82	3.6	17
179	Charge migration in the bifunctional PENNA cation induced and probed by ultrafast ionization: a dynamical study. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 124011	1.3	51
178	Tuning the Properties of Pd Nanoclusters by Ligand Coatings: Electronic Structure Computations on Phosphine, Thiol, and Mixed PhosphineThiol Ligand Shells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9790-9800	3.8	16
177	Ligand and Solvation Effects on the Structural and Electronic Properties of Small Gold Clusters. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4362-4376	3.8	33
176	Surprisal analysis of Glioblastoma Multiform (GBM) microRNA dynamics unveils tumor specific phenotype. <i>PLoS ONE</i> , 2014 , 9, e108171	3.7	7
175	Computational surprisal analysis speeds-up genomic characterization of cancer processes. <i>PLoS ONE</i> , 2014 , 9, e108549	3.7	3
174	Control of electronic dynamics visualized by angularly resolved photoelectron spectra: A dynamical simulation with an IR pump and XUV attosecond-pulse-train probe. <i>Physical Review A</i> , 2014 , 89,	2.6	26
173	Quantum dot ternary-valued full-adder: Logic synthesis by a multiobjective design optimization based on a genetic algorithm. <i>Journal of Applied Physics</i> , 2014 , 116, 164316	2.5	4
172	Pump and probe of ultrafast charge reorganization in small peptides: a computational study through sudden ionizations. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 10513-25	2.8	28
171	Molecular decision trees realized by ultrafast electronic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17183-8	11.5	21
170	miRNA and mRNA cancer signatures determined by analysis of expression levels in large cohorts of patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19160-5	11.5	57
169	Hot electron production and diffuse excited states in C70, C82, and Sc3N@C80 characterized by angular-resolved photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2013 , 139, 084309	3.9	15
168	Free energy rhythms in <i>Saccharomyces cerevisiae</i> : a dynamic perspective with implications for ribosomal biogenesis. <i>Biochemistry</i> , 2013 , 52, 1641-8	3.2	9
167	Hypoxia induces a phase transition within a kinase signaling network in cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1352-60	11.5	55
166	Probing rapidly-ionizing super-atom molecular orbitals in C60: a computational and femtosecond photoelectron spectroscopy study. <i>ChemPhysChem</i> , 2013 , 14, 3332-40	3.2	25
165	Realization of Complex Logic Operations at the Nanoscale. <i>Advances in Atom and Single Molecule Machines</i> , 2013 , 195-220	0	3
164	Imaging Orbitals by Ionization or Electron Attachment: The Role of Dyson Orbitals. <i>Advances in Atom and Single Molecule Machines</i> , 2013 , 41-54	0	11
163	pH-programmable DNA logic arrays powered by modular DNAzyme libraries. <i>Nano Letters</i> , 2012 , 12, 6049-54	11.5	96

162	Ultrafast predissociation mechanism of the $1\bar{u}$ states of $^{14}\text{N}_2$ and its isotopomers upon attosecond excitation from the ground state. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 11311-8	2.8	16
161	Localized electron dynamics in attosecond-pulse-excited molecular systems: Probing the time-dependent electron density by sudden photoionization. <i>Physical Review A</i> , 2012 , 86,	2.6	49
160	Logic reversibility and thermodynamic irreversibility demonstrated by DNAzyme-based Toffoli and Fredkin logic gates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 21228-33	11.5	77
159	Stabilization of merocyanine by protonation, charge, and external electric fields and effects on the isomerization of spiropyran: a computational study. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	10
158	Magnetostructural effects in ligand stabilized Pd ₁₃ clusters: a density functional theory study. <i>Nanoscale</i> , 2012 , 4, 4138-47	7.7	17
157	On a fundamental structure of gene networks in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4702-7	11.5	42
156	Interplay of structural and electronic stabilizing factors in neutral and cationic phosphine protected Au ₁₃ clusters. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	16
155	Querying a quasi-classical Oracle: One-bit function identification problem implemented in a single atom transistor. <i>Europhysics Letters</i> , 2012 , 99, 28004	1.6	2
154	Angular-resolved photoelectron spectroscopy of superatom orbitals of fullerenes. <i>Physical Review Letters</i> , 2012 , 108, 173401	7.4	36
153	Maximal entropy multivariate analysis. <i>Molecular Physics</i> , 2012 , 110, 1659-1668	1.7	
152	20-Nanogold Au ₂₀ (Td) and Low-Energy Hollow Cages: Void Reactivity. <i>Progress in Theoretical Chemistry and Physics</i> , 2012 , 571-598	0.6	
151	Protein signaling networks from single cell fluctuations and information theory profiling. <i>Biophysical Journal</i> , 2011 , 100, 2378-86	2.9	50
150	Balanced ternary addition using a gated silicon nanowire. <i>Applied Physics Letters</i> , 2011 , 99, 263109	3.4	7
149	Logic operations in a doped solid driven by stimulated Raman adiabatic passage. <i>Physical Review A</i> , 2011 , 83,	2.6	13
148	Whose Entropy: A Maximal Entropy Analysis of Phosphorylation Signaling. <i>Journal of Statistical Physics</i> , 2011 , 144, 429-442	1.5	2
147	Convergence of logic of cellular regulation in different premalignant cells by an information theoretic approach. <i>BMC Systems Biology</i> , 2011 , 5, 42	3.5	24
146	Stereocontrol of attosecond time-scale electron dynamics in ABCU using ultrafast laser pulses: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 8331-44	3.6	31
145	Integrated logic circuits using single-atom transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13969-72	11.5	31

144	Attosecond pumping of nonstationary electronic states of LiH: Charge shake-up and electron density distortion. <i>Physical Review A</i> , 2011 , 83,	2.6	38
143	On the strong and selective isotope effect in the UV excitation of N ₂ with implications toward the nebula and Martian atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 6020-5	11.5	43
142	Logic implementations using a single nanoparticle-protein hybrid. <i>Nature Nanotechnology</i> , 2010 , 5, 451-7	28.7	29
141	DNA computing circuits using libraries of DNAzyme subunits. <i>Nature Nanotechnology</i> , 2010 , 5, 417-22	28.7	369
140	All-DNA finite-state automata with finite memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 21996-2001	11.5	112
139	Ternary logic implemented on a single dopant atom field effect silicon transistor. <i>Applied Physics Letters</i> , 2010 , 96, 043107	3.4	22
138	Maximal entropy inference of oncogenicity from phosphorylation signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6112-7	11.5	9
137	DFT Studies of Solvation Effects on the Nanosize Bare, Thiolated, and Redox Active Ligated Au ₅₅ Cluster. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15941-15950	3.8	10
136	Information-theoretic analysis of phenotype changes in early stages of carcinogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10324-9	11.5	59
135	Electrically Addressing a Molecule-Like Donor Pair in Silicon: An Atomic Scale Cyclable Full Adder Logic. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20380-20386	3.8	8
134	Controlled full adder-subtractor by vibrational computing. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15628-35	3.6	9
133	20-nanogold Au ₂₀ (Td) cluster and its hollow cage isomers: structural and energetic properties. <i>Journal of Physics: Conference Series</i> , 2010 , 248, 012026	0.3	2
132	Redox-Executed Logic Operations through the Reversible Voltammetric Response Characteristics of Electroactive Self-Assembled Monolayers. <i>Australian Journal of Chemistry</i> , 2010 , 63, 173	1.2	7
131	Gas phase fullerene anions hydrogenation by methanol followed by IRMPA dehydrogenation. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 117-26	3.5	3
130	Bonding patterns of [Ag ₂ -alanine] ₀ hybrid complexes and the implementation of molecular logic gates. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 2237-2246	2.1	28
129	Controlled full adder or subtractor by vibrational quantum computing. <i>Physical Review A</i> , 2009 , 80,	2.6	12
128	The post-Born-Oppenheimer regime: dynamics of electronic motion in molecules by attosecond few-cycle spectroscopy. <i>Physica Scripta</i> , 2009 , 80, 048101	2.6	25
127	Electrochemically driven sequential machines: an implementation of copper rotaxanes. <i>Chemistry - A European Journal</i> , 2009 , 15, 1310-3	4.8	95

126	Reconfigurable logic devices on a single dopant atom - operation up to a full adder by using electrical spectroscopy. <i>ChemPhysChem</i> , 2009 , 10, 162-73	3.2	19
125	Electronic wave packet motion in water dimer cation: A many electron description. <i>Chemical Physics</i> , 2009 , 366, 129-138	2.3	47
124	Computational, structural, and mechanistic analysis of the electrochemically driven pirouetting motion of a copper rotaxane. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6219-29	3.4	19
123	Combined Mössbauer spectral and density functional theory determination of the magnetic easy-axis in two high-spin iron(II) 2-pyrazinecarboxylate complexes. <i>Inorganic Chemistry</i> , 2009 , 48, 8173-9 ^{5.1}	5.1	10
122	Ligand and solvation effects on the electronic properties of Au ₅₅ clusters: a density functional theory study. <i>Nano Letters</i> , 2009 , 9, 3007-11	11.5	35
121	The elimination of redundant constraints in surprisal analysis of unimolecular dissociation and other endothermic processes. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 4658-64	2.8	5
120	Vibrational computing: simulation of a full adder by optimal control. <i>Journal of Chemical Physics</i> , 2008 , 128, 064110	3.9	31
119	Pump and probe ultrafast electron dynamics in LiH: a computational study. <i>New Journal of Physics</i> , 2008 , 10, 025019	2.9	83
118	All Optical Full Adder Based on Intramolecular Electronic Energy Transfer in the Rhodamine-Azulene Bichromophoric System. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15880-15885	3.8	19
117	A density functional theory calculation of the electronic properties of several high-spin and low-spin iron(II) pyrazolylborate complexes. <i>Inorganic Chemistry</i> , 2008 , 47, 4005-14	5.1	25
116	Principles of design of a set-reset finite state logic nanomachine. <i>Journal of Applied Physics</i> , 2008 , 104, 044509	2.5	12
115	Computational investigation and experimental considerations for the classical implementation of a full adder on SO ₂ by optical pump-probe schemes. <i>Journal of Chemical Physics</i> , 2008 , 128, 194308	3.9	4
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