

Wolfgang Wenzel

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269
papers

7,104
citations

45
h-index

67
g-index

299
ext. papers

8,062
ext. citations

6.6
avg, IF

6.1
L-index

#	Paper	IF	Citations
269	Mutations in CHD7, encoding a chromatin-remodeling protein, cause idiopathic hypogonadotropic hypogonadism and Kallmann syndrome. <i>American Journal of Human Genetics</i> , 2008 , 83, 511-9	11	256
268	Electrical transport through single-molecule junctions: from molecular orbitals to conduction channels. <i>Physical Review Letters</i> , 2002 , 88, 256803	7.4	214
267	Simulating charge transport in tris(8-hydroxyquinoline) aluminium (Alq(3)). <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1852-8	3.6	155
266	Charge-Transfer-Induced Lattice Collapse in Ni-Rich NCM Cathode Materials during Delithiation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24381-24388	3.8	148
265	Stochastic Tunneling Approach for Global Minimization of Complex Potential Energy Landscapes. <i>Physical Review Letters</i> , 1999 , 82, 3003-3007	7.4	147
264	WDR11, a WD protein that interacts with transcription factor EMX1, is mutated in idiopathic hypogonadotropic hypogonadism and Kallmann syndrome. <i>American Journal of Human Genetics</i> , 2010 , 87, 465-79	11	134
263	Selective dispersion of single-walled carbon nanotubes with specific chiral indices by poly(N-decyl-2,7-carbazole). <i>Journal of the American Chemical Society</i> , 2011 , 133, 652-5	16.4	126
262	Characterization of unstable periodic orbits in chaotic attractors and repellers. <i>Physical Review Letters</i> , 1989 , 63, 819-822	7.4	101
261	Current collapse in tunneling transport through benzene. <i>Physical Review Letters</i> , 2003 , 90, 076805	7.4	100
260	Mott-Hubbard metal-insulator transition in nonbipartite lattices. <i>Physical Review Letters</i> , 1990 , 64, 950-953	7.4	95
259	Reproducible protein folding with the stochastic tunneling method. <i>Physical Review Letters</i> , 2003 , 91, 158102	7.4	93
258	Interfacial dominated ferromagnetism in nanograined ZnO: a MR and DFT study. <i>Scientific Reports</i> , 2015 , 5, 8871	4.9	92
257	Ab Initio Treatment of Disorder Effects in Amorphous Organic Materials: Toward Parameter Free Materials Simulation. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3720-5	6.4	87
256	Wavelength-Gated Dynamic Covalent Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2036-2045	16.4	83
255	Switching the Proton Conduction in Nanoporous, Crystalline Materials by Light. <i>Advanced Materials</i> , 2018 , 30, 1706551	24	78
254	[Au ₁₄ (PPh ₃) ₈ (NO ₃) ₄]: an example of a new class of Au(NO ₃)-ligated superatom complexes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3529-32	16.4	78
253	High throughput in-silico screening against flexible protein receptors. <i>Journal of Cheminformatics</i> , 2010 , 2,	8.6	78

252	Theoretical description of the electrical conduction in atomic and molecular junctions. <i>Nanotechnology</i> , 2003 , 14, R29-R38	3.4	76
251	Conductance Photoswitching of Metal-Organic Frameworks with Embedded Spiropyran. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1193-1197	16.4	74
250	Chiral Porous Metacrystals: Employing Liquid-Phase Epitaxy to Assemble Enantiopure Metal-Organic Nanoclusters into Molecular Framework Pores. <i>ACS Nano</i> , 2016 , 10, 977-83	16.7	71
249	Photoconductivity in Metal-Organic Framework (MOF) Thin Films. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9590-9595	16.4	68
248	Nonadiabatic wave packet dynamics on the coupled / electronic states of NO ₂ based on new ab initio potential energy surfaces. <i>Chemical Physics</i> , 2000 , 259, 211-226	2.3	67
247	Branched DNA that forms a solid at 95 °C. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3227-31	16.4	63
246	Comparison of stochastic optimization methods for receptor-ligand docking. <i>Chemical Physics Letters</i> , 2002 , 362, 271-277	2.5	63
245	Molecular Origin of the Charge Carrier Mobility in Small Molecule Organic Semiconductors. <i>Advanced Functional Materials</i> , 2016 , 26, 5757-5763	15.6	62
244	Visible Light [2 + 2] Cycloadditions for Reversible Polymer Ligation. <i>Macromolecules</i> , 2018 , 51, 3802-3807	5.5	61
243	Energy landscape paving simulations of the trp-cage protein. <i>Journal of Chemical Physics</i> , 2005 , 122, 1943-1951	3.1	61
242	Toward Design of Novel Materials for Organic Electronics. <i>Advanced Materials</i> , 2019 , 31, e1808256	24	60
241	Variable-temperature measurements of the single-molecule conductance of double-stranded DNA. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5499-502	16.4	60
240	Two base pair duplexes suffice to build a novel material. <i>ChemBioChem</i> , 2009 , 10, 1335-9	3.8	58
239	Basin hopping simulations for all-atom protein folding. <i>Journal of Chemical Physics</i> , 2006 , 124, 044515	3.9	57
238	Photochemistry in Confined Environments for Single-Chain Nanoparticle Design. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9551-9557	16.4	57
237	Non-linear transport through a molecular nanojunction. <i>Europhysics Letters</i> , 2002 , 57, 571-577	1.6	56
236	Constrained Synthesis and Organization of Catalytically Active Metal Nanoparticles by Self-Assembled Protein Templates. <i>Advanced Materials</i> , 2009 , 21, 3515-3519	24	55
235	An all-atom force field for tertiary structure prediction of helical proteins. <i>Biophysical Journal</i> , 2004 , 87, 3100-9	2.9	54

234	Differential hERG ion channel activity of ultrasmall gold nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8004-9	11.5	53
233	Folding and self-assembly of the TatA translocation pore based on a charge zipper mechanism. <i>Cell</i> , 2013 , 152, 316-26	56.2	52
232	Experimental and theoretical investigations of the electronic band structure of metal-organic frameworks of HKUST-1 type. <i>Applied Physics Letters</i> , 2015 , 107, 183301	3.4	52
231	Post-synthetic modification of epitaxially grown, highly oriented functionalized MOF thin films. <i>Chemical Communications</i> , 2011 , 47, 11210-2	5.8	52
230	Highly Selective Dispersion of Single-Walled Carbon Nanotubes via Polymer Wrapping: A Combinatorial Study via Modular Conjugation. <i>ACS Macro Letters</i> , 2014 , 3, 10-15	6.6	51
229	Nasal embryonic LHRH factor (NELF) mutations in patients with normosmic hypogonadotropic hypogonadism and Kallmann syndrome. <i>Fertility and Sterility</i> , 2011 , 95, 1613-20.e1-7	4.8	50
228	Spiral states in the square-lattice Hubbard model. <i>Physical Review B</i> , 1991 , 43, 8775-8778	3.3	49
227	Frustration-induced Raman scattering in CuGeO ₃ . <i>Physical Review B</i> , 1996 , 54, R9635-R9638	3.3	48
226	Superexchange Charge Transport in Loaded Metal Organic Frameworks. <i>ACS Nano</i> , 2016 , 10, 7085-93	16.7	48
225	Modeling disordered morphologies in organic semiconductors. <i>Journal of Computational Chemistry</i> , 2013 , 34, 2716-25	3.5	47
224	Host dependence of the electron affinity of molecular dopants. <i>Materials Horizons</i> , 2019 , 6, 107-114	14.4	44
223	An evolutionary strategy for all-atom folding of the 60-amino-acid bacterial ribosomal protein l20. <i>Biophysical Journal</i> , 2006 , 90, 4273-80	2.9	44
222	Six hydrophobins are involved in hydrophobin rodlet formation in <i>Aspergillus nidulans</i> and contribute to hydrophobicity of the spore surface. <i>PLoS ONE</i> , 2014 , 9, e94546	3.7	44
221	In silico discovery of a compound with nanomolar affinity to antithrombin causing partial activation and increased heparin affinity. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 6403-12	8.3	43
220	Controlling Chain Coupling and Single-Chain Ligation by Two Colours of Visible Light. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3604-3609	16.4	43
219	Access to Disparate Soft Matter Materials by Curing with Two Colors of Light. <i>Advanced Materials</i> , 2019 , 31, e1807288	24	43
218	Flexible side chain models improve enrichment rates in in silico screening. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 5919-31	8.3	42
217	Charge-switchable molecular magnet and spin blockade of tunneling. <i>Physical Review B</i> , 2007 , 75,	3.3	42

216	Built-In Potentials Induced by Molecular Order in Amorphous Organic Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1881-1887	9.5	40
215	Catalytic subsurface etching of nanoscale channels in graphite. <i>Nature Communications</i> , 2013 , 4, 1379	17.4	40
214	Independently switchable atomic quantum transistors by reversible contact reconstruction. <i>Nano Letters</i> , 2008 , 8, 4493-7	11.5	39
213	Brillouin-Wigner based multi-reference perturbation theory for electronic correlation effects. <i>Journal of Chemical Physics</i> , 1998 , 108, 4714-4724	3.9	39
212	Unstable periodic orbits and the symbolic dynamics of the complex Hénon map. <i>Physical Review A</i> , 1990 , 42, 4639-4646	2.6	39
211	Ab initio charge-carrier mobility model for amorphous molecular semiconductors. <i>Physical Review B</i> , 2016 , 93,	3.3	38
210	Mechanisms of Nanoglass Ultrastability. <i>ACS Nano</i> , 2016 , 10, 3241-7	16.7	38
209	Characterizing single chain nanoparticles (SCNPs): a critical survey. <i>Polymer Chemistry</i> , 2017 , 8, 5845-5854	9.9	38
208	Receptor flexibility in small-molecule docking calculations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011 , 1, 298-314	7.9	38
207	Metal-Insulator Transition in the Hubbard Model on a Triangular Lattice. <i>Europhysics Letters</i> , 1991 , 15, 625-630	1.6	37
206	Free-energy landscape of the villin headpiece in an all-atom force field. <i>Structure</i> , 2005 , 13, 661-8	5.2	36
205	Comparison of stochastic optimization methods for all-atom folding of the Trp-Cage protein. <i>ChemPhysChem</i> , 2005 , 6, 2640-6	3.2	36
204	Microemulsions: A Landau-Ginzburg theory. <i>Physical Review Letters</i> , 1990 , 65, 2736-2739	7.4	36
203	Cloning, functional characterization, and remodeling of K2P3.1 (TASK-1) potassium channels in a porcine model of atrial fibrillation and heart failure. <i>Heart Rhythm</i> , 2014 , 11, 1798-805	6.7	35
202	Anisotropic energy transfer in crystalline chromophore assemblies. <i>Nature Communications</i> , 2018 , 9, 4332	17.4	35
201	Toward Fast and Accurate Evaluation of Charge On-Site Energies and Transfer Integrals in Supramolecular Architectures Using Linear Constrained Density Functional Theory (CDFT)-Based Methods. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2077-86	6.4	34
200	hERG K ⁺ channel-associated cardiac effects of the antidepressant drug desipramine. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2011 , 383, 119-39	3.4	34
199	Application of the stochastic tunneling method to high throughput database screening. <i>Chemical Physics Letters</i> , 2003 , 370, 68-73	2.5	34

198	Macromolecular Superstructures: A Future Beyond Single Chain Nanoparticles. <i>Israel Journal of Chemistry</i> , 2020 , 60, 86-99	3-4	33
197	Receptor-specific scoring functions derived from quantum chemical models improve affinity estimates for in-silico drug discovery. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 70, 1264-73	4-2	33
196	In silico folding of a three helix protein and characterization of its free-energy landscape in an all-atom force field. <i>Physical Review Letters</i> , 2005 , 94, 018101	7-4	33
195	Scaling behavior of stochastic minimization algorithms in a perfect funnel landscape. <i>Physical Review E</i> , 1999 , 59, 938-941	2-4	33
194	QM/QM approach to model energy disorder in amorphous organic semiconductors. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 560-7	6-4	32
193	Selective dispersion of large-diameter semiconducting single-walled carbon nanotubes with pyridine-containing copolymers. <i>Small</i> , 2014 , 10, 360-7	11	32
192	Structural model of the gas vesicle protein GvpA and analysis of GvpA mutants in vivo. <i>Molecular Microbiology</i> , 2011 , 81, 56-68	4-1	32
191	Charge Transport by Superexchange in Molecular Host-Guest Systems. <i>Physical Review Letters</i> , 2016 , 117, 276803	7-4	32
190	Bunching and Immobilization of Ionic Liquids in Nanoporous Metal-Organic Framework. <i>Nano Letters</i> , 2019 , 19, 2114-2120	11.5	31
189	Wavelength-Dependent Stiffening of Hydrogel Matrices via Redshifted [2+2] Photocycloadditions. <i>Advanced Functional Materials</i> , 2020 , 30, 1908171	15.6	31
188	Periodic orbits in the dissipative standard map. <i>Physical Review A</i> , 1991 , 43, 6550-6557	2.6	31
187	(4,4')-Bipyridine in vacuo and in solvents: a quantum chemical study of a prototypical floppy molecule from a molecular transport perspective. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1918-28 ^{3.6}		30
186	Cardiac expression and atrial fibrillation-associated remodeling of K _v 2.1 (TREK-1) K ⁺ channels in a porcine model. <i>Life Sciences</i> , 2014 , 97, 107-15	6.8	30
185	Mirror images as naturally competing conformations in protein folding. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6880-8	3-4	30
184	All-atom folding of the three-helix HIV accessory protein with an adaptive parallel tempering method. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 57, 792-8	4-2	30
183	Full quantum treatment of charge dynamics in amorphous molecular semiconductors. <i>Physical Review B</i> , 2018 , 97,	3-3	29
182	7-Alkyl-3-benzylcoumarins: a versatile scaffold for the development of potent and selective cannabinoid receptor agonists and antagonists. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 7967-77	8-3	28
181	A peptidic unconjugated GRP78/BiP ligand modulates the unfolded protein response and induces prostate cancer cell death. <i>PLoS ONE</i> , 2012 , 7, e45690	3-7	28

180	Engineering hydrophobin DewA to generate surfaces that enhance adhesion of human but not bacterial cells. <i>Acta Biomaterialia</i> , 2012 , 8, 1037-47	10.8	28
179	Derivatives of molecular surface area and volume: simple and exact analytical formulas. <i>Journal of Computational Chemistry</i> , 2011 , 32, 2647-53	3.5	28
178	Molecular Origin of the Anisotropic Dye Orientation in Emissive Layers of Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , 2017 , 29, 9528-9535	9.6	27
177	Tailoring the Mechanical Properties of 3D Microstructures Using Visible Light Post-Manufacturing. <i>Advanced Materials</i> , 2019 , 31, e1901269	24	27
176	A de novo strategy for predictive crystal engineering to tune excitonic coupling. <i>Nature Communications</i> , 2019 , 10, 2048	17.4	27
175	Diameter sorting of carbon nanotubes by gradient centrifugation: role of endohedral water. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3896-3900	1.3	27
174	Predictive in silico all-atom folding of a four-helix protein with a free-energy model. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16736-7	16.4	27
173	Basis set reduction in Hilbert space. <i>Physical Review Letters</i> , 1992 , 69, 800-803	7.4	27
172	Spin-crossover and massive anisotropy switching of 5d transition metal atoms on graphene nanoflakes. <i>Nano Letters</i> , 2014 , 14, 3364-8	11.5	26
171	Multilevel atomic-scale transistors based on metallic quantum point contacts. <i>Advanced Materials</i> , 2010 , 22, 2033-6	24	26
170	Effects of energy correlations and superexchange on charge transport and exciton formation in amorphous molecular semiconductors: An ab initio study. <i>Physical Review B</i> , 2017 , 95,	3.3	25
169	Generalized effective-medium model for the carrier mobility in amorphous organic semiconductors. <i>Physical Review B</i> , 2015 , 91,	3.3	25
168	Modelling proteins: conformational sampling and reconstruction of folding kinetics. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 977-1000	4	25
167	All-atom folding of the trp-cage protein with an adaptive parallel tempering method. <i>Europhysics Letters</i> , 2004 , 67, 307-313	1.6	25
166	Multireference Brillouin-Wigner Coupled Cluster Singles and Doubles (MRBWCCSD) and Multireference Doubles Configuration Interaction (MRD-CI) Calculations for the Bergman Cyclization Reaction. <i>Collection of Czechoslovak Chemical Communications</i> , 2003 , 68, 2309-2321		24
165	Rational In Silico Design of an Organic Semiconductor with Improved Electron Mobility. <i>Advanced Materials</i> , 2017 , 29, 1703505	24	23
164	Disorder compensation controls doping efficiency in organic semiconductors. <i>Nature Communications</i> , 2019 , 10, 4547	17.4	23
163	Loading of ionic compounds into metal-organic frameworks: a joint theoretical and experimental study for the case of La ³⁺ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17918-23	3.6	23

162	Sub-50 nm Channel Vertical Field-Effect Transistors using Conventional Ink-Jet Printing. <i>Advanced Materials</i> , 2017 , 29, 1603858	24	23
161	Structure of the membrane anchor of pestivirus glycoprotein E(rns), a long tilted amphipathic helix. <i>PLoS Pathogens</i> , 2014 , 10, e1003973	7.6	23
160	Contemporary Photoligation Chemistry: The Visible Light Challenge. <i>Chemistry - A European Journal</i> , 2019 , 25, 3700-3709	4.8	23
159	BiO ₂ Nanoparticles encapsulated in surface mounted metal-organic framework thin films. <i>Nanoscale</i> , 2016 , 8, 6468-72	7.7	22
158	Loading of Two Related Metal-Organic Frameworks (MOFs), [Cu ₂ (bdc) ₂ (dabco)] and [Cu ₂ (ndc) ₂ (dabco)], with Ferrocene. <i>Polymers</i> , 2011 , 3, 1565-1574	4.5	22
157	Preselectable integer quantum conductance of electrochemically fabricated silver point contacts. <i>Applied Physics Letters</i> , 2008 , 93, 043103	3.4	22
156	Green light triggered [2+2] cycloaddition of halochromic styrylquinoxaline-controlling photoreactivity by pH. <i>Nature Communications</i> , 2020 , 11, 4193	17.4	22
155	Ultrarobust Thin-Film Devices from Self-Assembled Metal-Terpyridine Oligomers. <i>Advanced Materials</i> , 2016 , 28, 3473-80	24	21
154	SIMONA 1.0: an efficient and versatile framework for stochastic simulations of molecular and nanoscale systems. <i>Journal of Computational Chemistry</i> , 2012 , 33, 2602-13	3.5	21
153	A free-energy approach for all-atom protein simulation. <i>Biophysical Journal</i> , 2009 , 96, 3483-94	2.9	21
152	Influence of Meso and Nanoscale Structure on the Properties of Highly Efficient Small Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501280	21.8	21
151	Modelling of reversible single chain polymer self-assembly: from the polymer towards the protein limit. <i>Chemical Communications</i> , 2015 , 51, 6002-5	5.8	20
150	Branched DNA That Forms a Solid at 95 °C. <i>Angewandte Chemie</i> , 2011 , 123, 3285-3289	3.6	20
149	Optimization methods for virtual screening on novel computational architectures. <i>Current Computer-Aided Drug Design</i> , 2011 , 7, 44-52	1.4	20
148	Accurate multireference calculations of the electron affinity of NO, BO and O ₂ . <i>Chemical Physics Letters</i> , 2003 , 370, 478-484	2.5	20
147	Designing Molecular Printboards: A Photolithographic Platform for Recodable Surfaces. <i>Chemistry - A European Journal</i> , 2015 , 21, 13186-90	4.8	19
146	Exploration of the free-energy surface of a three-helix peptide with stochastic optimization methods. <i>International Journal of Quantum Chemistry</i> , 2004 , 99, 854-863	2.1	19
145	Investigation of a Kubo-formula-based approach to estimate DNA conductance in an atomistic model. <i>European Physical Journal E</i> , 2005 , 18, 437-45	1.5	19

144	Influence of endohedral water on diameter sorting of single-walled carbon nanotubes by density gradient centrifugation. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 902-8	3.6	18
143	Interactions of hydrophobic and hydrophilic self-assembled monolayers with water as probed by sum-frequency-generation spectroscopy. <i>Chemical Physics Letters</i> , 2010 , 494, 193-197	2.5	18
142	Effects of molecular motion on charge transfer/transport through DNA duplexes with and without base pair mismatch. <i>Molecular Simulation</i> , 2006 , 32, 759-764	2	18
141	Improved implementation and application of the individually selecting configuration interaction method. <i>Journal of Chemical Physics</i> , 2005 , 122, 024110	3.9	18
140	Tuning Optical Properties by Controlled Aggregation: Electroluminescence Assisted by Thermally-Activated Delayed Fluorescence from Thin Films of Crystalline Chromophores. <i>Chemistry - A European Journal</i> , 2020 , 26, 17016-17020	4.8	18
139	Lichtinduziertes Schalten der Leitfähigkeit von MOFs mit eingelagertem Spiropyran. <i>Angewandte Chemie</i> , 2019 , 131, 1205-1210	3.6	18
138	Binding patterns of homo-peptides on bare magnetic nanoparticles: insights into environmental dependence. <i>Scientific Reports</i> , 2017 , 7, 14047	4.9	17
137	Machine learning of correlated dihedral potentials for atomistic molecular force fields. <i>Scientific Reports</i> , 2018 , 8, 2559	4.9	17
136	Band-gap engineering with a twist: Formation of intercalant superlattices in twisted graphene bilayers. <i>Physical Review B</i> , 2015 , 91,	3.3	17
135	Protein structure prediction by all-atom free-energy refinement. <i>BMC Structural Biology</i> , 2007 , 7, 12	2.7	17
134	Interaction-induced collapse of a section of the Fermi sea in the zigzag Hubbard ladder. <i>Physical Review Letters</i> , 2002 , 88, 217203	7.4	17
133	Disorder induced quantum phase transition in random-exchange spin-1/2 chains. <i>Physical Review Letters</i> , 2002 , 89, 127202	7.4	17
132	Experimental characterization and simulation of amino acid and peptide interactions with inorganic materials. <i>Engineering in Life Sciences</i> , 2018 , 18, 84-100	3.4	16
131	Wavelength-gated photoreversible polymerization and topology control. <i>Chemical Science</i> , 2020 , 11, 2834-2842	9.4	15
130	Ligand-lipid and ligand-core affinity control the interaction of gold nanoparticles with artificial lipid bilayers and cell membranes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1409-19	6	15
129	Modeling loop backbone flexibility in receptor-ligand docking simulations. <i>Journal of Computational Chemistry</i> , 2012 , 33, 2504-15	3.5	14
128	Impact of receptor conformation on in silico screening performance. <i>Chemical Physics Letters</i> , 2004 , 390, 500-505	2.5	14
127	Multireference basis-set reduction. <i>International Journal of Quantum Chemistry</i> , 1996 , 60, 1325-1330	2.1	14

126	Accuracy of binding mode prediction with a cascadic stochastic tunneling method. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 68, 195-204	4.2	13
125	Triplet exciton diffusion in metalorganic phosphorescent host-guest systems from first principles. <i>Physical Review B</i> , 2019 , 99,	3.3	12
124	Photoleitfähigkeit in Dünfilmen Metall-organischer Geräte. <i>Angewandte Chemie</i> , 2019 , 131, 9691-9696	3.6	12
123	Single-molecule DNA conductance in water solutions: Role of DNA low-frequency dynamics. <i>Chemical Physics Letters</i> , 2009 , 467, 369-374	2.5	12
122	Fluctuation analysis and accuracy of a large-scale in silico screen. <i>Journal of Computational Chemistry</i> , 2004 , 25, 1568-75	3.5	12
121	Breakdown of the Luttinger sum rule at the Mott-Hubbard transition in the one-dimensional $t_1 - t_2$ Hubbard model. <i>Europhysics Letters</i> , 2005 , 69, 616-622	1.6	12
120	Designable electron transport features in one-dimensional arrays of metallic nanoparticles: Monte Carlo study of the relation between shape and transport. <i>Physical Review B</i> , 2005 , 72,	3.3	12
119	p-Doping of polystyrene polymers with attached functional side-groups from solution. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 770-776	7.1	11
118	Light-Switchable One-Dimensional Photonic Crystals Based on MOFs with Photomodulatable Refractive Index. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6626-6633	6.4	11
117	Structure based design of protein linkers for zinc finger nuclease. <i>FEBS Letters</i> , 2013 , 587, 3231-5	3.8	11
116	Anti-inflammatory effect of active nanofibrous polymeric membrane bearing nanocontainers of atorvastatin complexes. <i>Nanomedicine</i> , 2017 , 12, 2651-2674	5.6	11
115	Influence of structural disorder and large-scale geometric fluctuations on the coherent transport of metallic junctions and molecular wires. <i>Physical Review B</i> , 2009 , 80,	3.3	11
114	Probing hot spots on protein-protein interfaces with all-atom free-energy simulation. <i>Journal of Chemical Physics</i> , 2009 , 131, 034114	3.9	11
113	Ab initio modeling of steady-state and time-dependent charge transport in hole-only μ LED devices. <i>Applied Physics Letters</i> , 2016 , 109, 243301	3.4	11
112	Effects of hydrogen ion irradiation on zinc oxide etching. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 05C303	2.9	10
111	Multiscale Simulation of Photoluminescence Quenching in Phosphorescent OLED Materials. <i>Advanced Theory and Simulations</i> , 2020 , 3, 1900222	3.5	10
110	Disorder-driven doping activation in organic semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 10256-10264	3.6	10
109	Investigation of the parallel tempering method for protein folding. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S1641-S1650	1.8	10

108	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> , 2102785	21.8	10
107	Wavelength-Selective Softening of Hydrogel Networks. <i>Advanced Materials</i> , 2021 , 33, e2102184	24	10
106	Generalized Born implicit solvent models for small molecule hydration free energies. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1677-1685	3.6	9
105	26-4: Computer-Aided Optimization of Multilayer OLED Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 340-342	0.5	9
104	A fluorescence polarization assay for the experimental validation of an in silico model of the chemokine CXCL8 binding to receptor-derived peptides. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8036-43	3.6	9
103	Different interface orientations of pentacene and PTCDA induce different degrees of disorder. <i>Nanoscale Research Letters</i> , 2012 , 7, 248	5	9
102	Template-free protein structure prediction and quality assessment with an all-atom free-energy model. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 330-41	4.2	9
101	Memory effects in electrochemically gated metallic point contacts. <i>Applied Physics Letters</i> , 2012 , 100, 203511	3.4	9
100	Magnon-magnon interactions in the spin-Peierls compound CuGeO ₃ . <i>Physical Review B</i> , 1997 , 55, 15048-15052	3.5	9
99	All-atom de novo protein folding with a scalable evolutionary algorithm. <i>Journal of Computational Chemistry</i> , 2007 , 28, 2552-8	3.5	9
98	Predictive folding of a hairpin protein in an all-atom free-energy model. <i>Europhysics Letters</i> , 2006 , 76, 156-162	1.6	9
97	Test of the frustrated spin-cluster model to describe the low-temperature physics of NaV ₂ O ₅ . <i>Physical Review B</i> , 2000 , 62, R14617-R14620	3.3	9
96	Action Plots in Action: In-Depth Insights into Photochemical Reactivity. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	9
95	NFDI4Chem - Towards a National Research Data Infrastructure for Chemistry in Germany. <i>Research Ideas and Outcomes</i> , 6,	2.5	9
94	Adsorption of organic molecules on carbon surfaces: Experimental data and molecular dynamics simulation considering multiple protonation states. <i>Journal of Colloid and Interface Science</i> , 2021 , 589, 424-437	9.3	9
93	Enantiomeric Separation of Semiconducting Single-Walled Carbon Nanotubes by Acid Cleavable Chiral Polyfluorene. <i>ACS Nano</i> , 2021 , 15, 4699-4709	16.7	9
92	Conductive Metal-Organic Framework Thin Film Hybrids by Electropolymerization of Monosubstituted Acetylenes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30972-30979	9.5	8
91	PowerBorn: A Barnes-Hut Tree Implementation for Accurate and Efficient Born Radii Computation. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1489-98	6.4	8

90	Unique phenotype in a patient with CHARGE syndrome. <i>International Journal of Pediatric Endocrinology (Springer)</i> , 2011 , 2011, 11	1.5	8
89	Protein Structure Prediction with Stochastic Optimization Methods: Folding and Misfolding the Villin Headpiece. <i>Lecture Notes in Computer Science</i> , 2004 , 454-464	0.9	8
88	Photocycloadditions in disparate chemical environments. <i>Chemical Communications</i> , 2020 , 56, 14043-14046	3.4	8
87	Molecular and Electronic Structure of the Cluster [Au ₈ (PPh ₃) ₈](NO ₃) ₂ . <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 975-981	2.3	8
86	Modular functionalization and hydrogel formation red-shifted and self-reporting [2+2] cycloadditions. <i>Chemical Communications</i> , 2021 , 57, 805-808	5.8	8
85	Concomitant partial exon skipping by a unique missense mutation of RPS6KA3 causes Coffin-Lowry syndrome. <i>Gene</i> , 2016 , 575, 42-7	3.8	7
84	Accurate multireference calculations of the electronic structure of TiF ₂ and TiCl ₂ . <i>Chemical Physics Letters</i> , 2005 , 413, 42-46	2.5	7
83	Tough, Transparent, 3D printable and Self-healing Polyethylene Glycol-Gel (PEGgel). <i>Advanced Materials</i> , 2021 , e2107791	24	7
82	Effective Parallelization of Non-bonded Interactions Kernel for Virtual Screening on GPUs. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 63-69		7
81	Formation and desorption of nickel hexafluoroacetylacetonate Ni(hfac) ₂ on a nickel oxide surface in atomic layer etching processes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 052602	2.9	7
80	Sampling of the conformational landscape of small proteins with Monte Carlo methods. <i>Scientific Reports</i> , 2020 , 10, 18211	4.9	7
79	Buffer Influence on the Amino Acid Silica Interaction. <i>ChemPhysChem</i> , 2020 , 21, 2347-2356	3.2	7
78	19-4: Boosting OLED Performance with Ab-initio Modeling of Roll-off and Quenching Processes. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 259-262	0.5	6
77	Stability of hexafluoroacetylacetone molecules on metallic and oxidized nickel surfaces in atomic-layer-etching processes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 022610	2.9	6
76	Meltdown! Local Heating by Decaying Excited Host Positive Polarons Triggers Aggregation Quenching in Blue PhOLEDs. <i>ChemPhysChem</i> , 2018 , 19, 2961-2966	3.2	6
75	Charge carrier mobility and electronic properties of Al(Op) ₃ : impact of excimer formation. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1107-15	3	6
74	SLIM: an improved generalized Born implicit membrane model. <i>Journal of Computational Chemistry</i> , 2014 , 35, 2027-39	3.5	6
73	Applying the extended molecule approach to correlated electron transport: Important insight from model calculations. <i>Journal of Chemical Physics</i> , 2010 , 133, 014108	3.9	6

72	De novo folding of the DNA-binding ATF-2 zinc finger motif in an all-atom free-energy forcefield. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7726-8	16.4	6
71	Predictive and reproducibilede novoall-atom folding of a Hairpin loop in an improved free-energy forcefield. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 285213	1.8	6
70	High Throughput in-silico Screening against Flexible Protein Receptors. <i>Lecture Notes in Computer Science</i> , 2004 , 465-472	0.9	6
69	43-3: Ab-initio Simulation of Doped Injection Layers.. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 630-633	0.5	6
68	Multi-material 3D microstructures with photochemically adaptive mechanical properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10993-11000	7.1	6
67	Structural and Dynamic Insights into the Conduction of Lithium-Ionic-Liquid Mixtures in Nanoporous Metal-Organic Frameworks as Solid-State Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21166-21174	9.5	6
66	Light-fueled dynamic covalent crosslinking of single polymer chains in non-equilibrium states. <i>Chemical Science</i> , 2020 , 12, 1302-1310	9.4	6
65	Interplay of structural dynamics and electronic effects in an engineered assembly of pentacene in a metal-organic framework. <i>Chemical Science</i> , 2021 , 12, 4477-4483	9.4	6
64	Data Management Plans: the Importance of Data Management in the BIG-MAP Project[]**. <i>Batteries and Supercaps</i> ,	5.6	6
63	Concentration dependent energy levels shifts in donor-acceptor mixtures due to intermolecular electrostatic interaction. <i>Scientific Reports</i> , 2019 , 9, 12424	4.9	5
62	Deposition of palladium nanoparticles on self-assembled, zinc-induced tubulin macrotubes and sheets. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6858-65	1.3	5
61	Towards a theory of electrical transport through atomic and molecular junctions. <i>Phase Transitions</i> , 2004 , 77, 175-189	1.3	5
60	Multireference calculations of the electronic structure of VF ₂ and VCl ₂ . <i>Journal of Chemical Physics</i> , 2005 , 123, 194110	3.9	5
59	Analyzing Dynamical Disorder for Charge Transport in Organic Semiconductors via Machine Learning. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 3750-3759	6.4	5
58	DNA Binding to the Silica: Cooperative Adsorption in Action. <i>Langmuir</i> , 2021 , 37, 5902-5908	4	5
57	Method for accurate experimental determination of singlet and triplet exciton diffusion between thermally activated delayed fluorescence molecules. <i>Chemical Science</i> , 2020 , 12, 1121-1125	9.4	5
56	Encapsulation of Au ₅₅ Clusters within Surface-Supported Metal-Organic Frameworks for Catalytic Reduction of 4-Nitrophenol. <i>ACS Applied Nano Materials</i> , 2021 , 4, 522-528	5.6	5
55	Green light LED activated ligation of a scalable, versatile chalcone chromophore. <i>Polymer Chemistry</i> , 2021 , 12, 4903-4909	4.9	5

54	Challenges and limits of mechanical stability in 3D direct laser writing.. <i>Nature Communications</i> , 2022 , 13, 2115	17.4	5
53	Rational Design of Iron Oxide Binding Peptide Tags. <i>Langmuir</i> , 2019 , 35, 8472-8481	4	4
52	Experimental and theoretical study of phase separation in ZnPc:C60 blends. <i>Organic Electronics</i> , 2015 , 27, 183-191	3.5	4
51	Optical and Electrical Measurements Reveal the Orientation Mechanism of Homoleptic Iridium-Carbene Complexes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51709-51718	9.5	4
50	Peptide structure prediction using distributed volunteer computing networks. <i>Journal of Mathematical Chemistry</i> , 2012 , 50, 421-428	2.1	4
49	A method for the calculation of rate constants from stochastic transition paths. <i>Journal of Chemical Physics</i> , 2010 , 132, 104104	3.9	4
48	Folding path and funnel scenarios for two small disulfide-bridged proteins. <i>Biochemistry</i> , 2009 , 48, 8195-8205	3.05	4
47	Benchmark calculations using the individually selecting configuration interaction method. <i>Molecular Physics</i> , 2002 , 100, 1807-1812	1.7	4
46	Workflow Engineering in Materials Design within the BATTERY 2030 + Project. <i>Advanced Energy Materials</i> , 2020 , 10, 2102638	21.8	4
45	Photocycloreversions within single polymer chains. <i>Polymer Chemistry</i> , 2020 , 11, 6616-6623	4.9	4
44	A coarse-grained xDLVO model for colloidal protein-protein interactions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12780-12794	3.6	4
43	Magnetic anisotropy of graphene quantum dots decorated with a ruthenium adatom. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 441-5	3	3
42	Transition network based on equilibrium sampling: a new method for extracting kinetic information from Monte Carlo simulations of protein folding. <i>Journal of Chemical Physics</i> , 2011 , 135, 235105	3.9	3
41	Conformational dependence of DNA ballistic conductivity. <i>Journal of Chemical Physics</i> , 2008 , 129, 131101	3.9	3
40	De novo Folding of Two-Helix Potassium Channel Blockers with Free-Energy Models and Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1183-92	6.4	3
39	De Novo Folding of the DNA-Binding ATF-2 Zinc Finger Motif in an All-Atom Free-Energy Forcefield. <i>Angewandte Chemie</i> , 2006 , 118, 7890-7892	3.6	3
38	Steric Clash in the SET Domain of Histone Methyltransferase NSD1 as a Cause of Sotos Syndrome and Its Genetic Heterogeneity in a Brazilian Cohort. <i>Genes</i> , 2016 , 7,	4.2	3
37	Tacticity dependence of single chain polymer folding. <i>Polymer Chemistry</i> , 2020 , 11, 3439-3445	4.9	3

36	Structural design of pyrene-functionalized TEMPO-containing polymers for enhanced electrochemical storage performance. <i>Polymer Chemistry</i> , 2021 , 12, 2643-2650	4.9	3
35	Structural origins of the cohesive energy in metal-terpyridine oligomer thin-films. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27952-27959	3.6	2
34	Multiscale Simulation of Organic Electronics Via Smart Scheduling of Quantum Mechanics Computations. <i>Procedia Computer Science</i> , 2016 , 80, 1244-1254	1.6	2
33	Calculation of the "absolute" free energy of a Hairpin in an all-atom force field. <i>Journal of Chemical Physics</i> , 2013 , 139, 054102	3.9	2
32	Conformational landscape of the HIV-V3 hairpin loop from all-atom free-energy simulations. <i>Journal of Chemical Physics</i> , 2008 , 128, 105103	3.9	2
31	The anisotropic quantum antiferromagnet on the Sierpiński gasket: Ground state and thermodynamics. <i>European Physical Journal B</i> , 2004 , 38, 49-58	1.2	2
30	Negative differential conductance in a benzene-molecular device. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 241-242	3	2
29	meso-Tetrahydropyranylperoxides: molecular structures in solution, in the crystal, and by DFT calculations and their isomerization to the racemate. <i>Journal of Organic Chemistry</i> , 2003 , 68, 5331-8	4.2	2
28	De Novo Calculation of the Charge Carrier Mobility in Amorphous Small Molecule Organic Semiconductors.. <i>Frontiers in Chemistry</i> , 2021 , 9, 801589	5	2
27	Computing Charging and Polarization Energies of Small Organic Molecules Embedded into Amorphous Materials with Quantum Accuracy. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 3727-3738	6.4	2
26	Ionic liquid gating of single-walled carbon nanotube devices with ultra-short channel length down to 10 nm. <i>Applied Physics Letters</i> , 2021 , 118, 063101	3.4	2
25	Fluorescent Nanozeolite Receptors for the Highly Selective and Sensitive Detection of Neurotransmitters in Water and Biofluids. <i>Advanced Materials</i> , 2021 , e2104614	24	2
24	De Novo Simulation of Charge Transport through Organic Single-Carrier Devices. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6416-6422	6.4	2
23	Multiparticle moves in acceptance rate optimized Monte Carlo. <i>Journal of Computational Chemistry</i> , 2015 , 36, 2236-45	3.5	1
22	Performance assessment of different constraining potentials in computational structure prediction for disulfide-bridged proteins. <i>Computational Biology and Chemistry</i> , 2011 , 35, 230-9	3.6	1
21	Structural and Functional Mimicry of the Binding Site of hYAP-WW Domain for Proline-rich Ligands. <i>International Journal of Peptide Research and Therapeutics</i> , 2007 , 13, 245-250	2.1	1
20	A new ligand field approach to linear transition metal dihalides. <i>Journal of Chemical Physics</i> , 2006 , 125, 34106	3.9	1
19	All-atom folding studies of a DNA binding protein in a free-energy force field. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 285210	1.8	1

18	Charge-induced modulation of magnetic interactions in a [2 D] metal-organic grid complex. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 994-1000	2.1	1
17	Systematic kMC Study of Doped Hole Injection Layers in Organic Electronics.. <i>Frontiers in Chemistry</i> , 2021 , 9, 809415	5	1
16	Impact of the Polymorphism and Relativistic Effects on the Electronic Properties of Inorganic Metal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2131-2140	3.8	1
15	Fast Generation of Machine Learning-Based Force Fields for Adsorption Energies. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 7195-7202	6.4	1
14	Monte-Carlo Simulations of Soft Matter Using SIMONA: A Review of Recent Applications. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	1
13	Avoiding the Center-Symmetry Trap: Programmed Assembly of Dipolar Precursors into Porous, Crystalline Molecular Thin Films. <i>Advanced Materials</i> , 2021 , 33, e2103287	24	1
12	Insights on Alanine and Arginine Binding to Silica with Atomic Resolution. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9384-9390	6.4	1
11	Multireference basis-set reduction 1996 , 60, 1325		1
10	Simulating the growth of amorphous organic thin films. <i>Organic Electronics</i> , 2022 , 102, 106439	3.5	0
9	Modelling peptide adsorption energies on gold surfaces with an effective implicit solvent and surface model. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 493-499	9.3	0
8	Photostationary State in Dynamic Covalent Networks.. <i>ACS Macro Letters</i> , 2022 , 11, 532-536	6.6	0
7	Editorial to the Special Issue: How to Reinvent the Ways to Invent the Batteries of the Future [The Battery 2030+ Large-Scale Research Initiative Roadmap. <i>Advanced Energy Materials</i> , 2022 , 12, 2200644	21.8	0
6	Thermodynamic Characterization of Protein Folding Equilibria at the All Atom Level. <i>Biophysical Journal</i> , 2013 , 104, 369a-370a	2.9	
5	Resonant neutral particle emission in collisions of electrons with protonated peptides with disulfide bonds at high energies. <i>Chemical Physics Letters</i> , 2011 , 504, 83-87	2.5	
4	Equation of motion approach to the Hubbard model in infinite dimensions. <i>Journal of Low Temperature Physics</i> , 1995 , 99, 603-605	1.3	
3	New mean field theories of the Hubbard model. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 1447-1448	1.3	
2	STOCHASTIC OPTIMIZATION METHODS FOR PROTEIN FOLDING 2006 , 557-572		
1	22-3: Tuning ETL Mobility by Disorder Passivation. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 270-273	0.5	

