Ville R I Kaila

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.

86 2,906 51 32 h-index g-index citations papers 10.5 3,527 5.91 91 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
86	Molecular Principles of Redox-Coupled Protonation Dynamics in Photosystem II <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	6
85	Extended conformational states dominate the Hsp90 chaperone dynamics. <i>Journal of Biological Chemistry</i> , 2022 , 102101	5.4	1
84	Design of buried charged networks in artificial proteins. <i>Nature Communications</i> , 2021 , 12, 1895	17.4	5
83	Molecular strain in the active/deactive-transition modulates domain coupling in respiratory complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021 , 1862, 148382	4.6	2
82	Deactivation blocks proton pathways in the mitochondrial complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
81	Fe-chitosan complexes for oxidative degradation of emerging contaminants in water: Structure, activity, and reaction mechanism. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124662	12.8	6
80	The central role of the metal ion for photoactivity: Zn- Ni-Mabiq. <i>Chemical Science</i> , 2021 , 12, 7521-7532	9.4	7
79	Architecture of bacterial respiratory chains. <i>Nature Reviews Microbiology</i> , 2021 , 19, 319-330	22.2	23
78	Resolving Chemical Dynamics in Biological Energy Conversion: Long-Range Proton-Coupled Electron Transfer in Respiratory Complex I <i>Accounts of Chemical Research</i> , 2021 , 54, 4462-4473	24.3	2
77	Functional Water Wires Catalyze Long-Range Proton Pumping in the Mammalian Respiratory Complex I. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21758-21766	16.4	12
76	Conformational dynamics modulate the catalytic activity of the molecular chaperone Hsp90. <i>Nature Communications</i> , 2020 , 11, 1410	17.4	24
75	A methylated lysine is a switch point for conformational communication in the chaperone Hsp90. <i>Nature Communications</i> , 2020 , 11, 1219	17.4	12
74	Exploring the catalytic cascade of cembranoid biosynthesis by combination of genetic engineering and molecular simulations. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 1819-1829	6.8	1
73	Water-Gated Proton Transfer Dynamics in Respiratory Complex I. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13718-13728	16.4	18
72	Structural snapshots of the minimal PKS system responsible for octaketide biosynthesis. <i>Nature Chemistry</i> , 2020 , 12, 755-763	17.6	14
71	Redox-coupled proton pumping drives carbon concentration in the photosynthetic complex I. <i>Nature Communications</i> , 2020 , 11, 494	17.4	38
70	Ion Binding and Selectivity of the Na/H Antiporter MjNhaP1 from Experiment and Simulation. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 336-344	3.4	1

(2018-2020)

69	Benchmarking the Performance of Time-Dependent Density Functional Theory Methods on Biochromophores. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 587-600	6.4	32	
68	Structure of inhibitor-bound mammalian complex I. <i>Nature Communications</i> , 2020 , 11, 5261	17.4	26	
67	Reciprocal Coupling in Chemically Fueled Assembly: A Reaction Cycle Regulates Self-Assembly and Vice Versa. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20837-20844	16.4	21	
66	Dynamic Vesicles Formed By Dissipative Self-Assembly. <i>ChemSystemsChem</i> , 2020 , 2, e1900044	3.1	34	
65	Dispersion forces drive water oxidation in molecular ruthenium catalysts RSC Advances, 2020, 11, 425-	4 3 .7⁄2	2	
64	Electric field modulated redox-driven protonation and hydration energetics in energy converting enzymes. <i>Chemical Communications</i> , 2019 , 55, 6078-6081	5.8	10	
63	Molecular mechanism of polyketide shortening in anthraquinone biosynthesis of. <i>Chemical Science</i> , 2019 , 10, 6341-6349	9.4	9	
62	How cardiolipin modulates the dynamics of respiratory complex I. <i>Science Advances</i> , 2019 , 5, eaav1850	14.3	37	
61	Absorption shifts of diastereotopically ligated chlorophyll dimers of photosystem I. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6851-6858	3.6	12	
60	Energetics and Dynamics of Proton-Coupled Electron Transfer in the NADH/FMN Site of Respiratory Complex I. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5710-5719	16.4	19	
59	Quantum Chemical and QM/MM Models in Biochemistry. <i>Methods in Molecular Biology</i> , 2019 , 2022, 75-7	10:44	3	
58	Autophosphorylation activates c-Src kinase through global structural rearrangements. <i>Journal of Biological Chemistry</i> , 2019 , 294, 13186-13197	5.4	7	
57	Redox- and Light-Driven Hydration Dynamics in Biological Energy Transduction 2019, 53-81			
56	Site-specific ubiquitylation and SUMOylation using genetic-code expansion and sortase. <i>Nature Chemical Biology</i> , 2019 , 15, 276-284	11.7	55	
55	Molecular dynamics and structural models of the cyanobacterial NDH-1 complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019 , 1860, 201-208	4.6	7	
54	The low spin - high spin equilibrium in the S-state of the water oxidizing enzyme. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 342-356	4.6	54	
53	Long-range proton-coupled electron transfer in biological energy conversion: towards mechanistic understanding of respiratory complex I. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	79	
52	A switch point in the molecular chaperone Hsp90 responding to client interaction. <i>Nature Communications</i> , 2018 , 9, 1472	17.4	25	

51	C-H Oxidation by a Diiron Complex with Facially Opposing Active Sites. ChemistrySelect, 2018, 3, 1602-1	608	3
50	Global collective motions in the mammalian and bacterial respiratory complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 326-332	4.6	14
49	The protease GtgE from Salmonella exclusively targets inactive Rab GTPases. <i>Nature Communications</i> , 2018 , 9, 44	17.4	15
48	Catalytic mechanism and molecular engineering of quinolone biosynthesis in dioxygenase AsqJ. <i>Nature Communications</i> , 2018 , 9, 1168	17.4	20
47	Conformational Selection of Dimethylarginine Recognition by the Survival Motor Neuron Tudor Domain. <i>Angewandte Chemie</i> , 2018 , 130, 495-499	3.6	
46	Conformational Selection of Dimethylarginine Recognition by the Survival Motor Neuron Tudor Domain. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 486-490	16.4	1
45	Dewetting transitions coupled to K-channel activation in cytochrome oxidase. <i>Chemical Science</i> , 2018 , 9, 6703-6710	9.4	11
44	Redox-coupled quinone dynamics in the respiratory complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8413-E8420	11.5	53
43	How inter-subunit contacts in the membrane domain of complex I affect proton transfer energetics. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 734-741	4.6	12
42	Energetics and dynamics of a light-driven sodium-pumping rhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7043-7048	11.5	52
41	Hsp90 dependence of a kinase is determined by its conformational landscape. <i>Scientific Reports</i> , 2017 , 7, 43996	4.9	19
40	To catalyze or not to catalyze: elucidation of the subtle differences between the hexameric capsules of pyrogallolarene and resorcinarene. <i>Chemical Science</i> , 2017 , 8, 1653-1657	9.4	39
39	Terminal Electron-Proton Transfer Dynamics in the Quinone Reduction of Respiratory Complex I. Journal of the American Chemical Society, 2017 , 139, 16282-16288	16.4	41
38	Symmetry-related proton transfer pathways in respiratory complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E6314-E6321	11.5	70
37	Correlating kinetic and structural data on ubiquinone binding and reduction by respiratory complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12737-1274	4 ¹ 2 ^{1.5}	58
36	A Protonated Water Cluster as a Transient Proton-Loading Site in Cytochrome c Oxidase. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11940-4	16.4	27
35	Oxidative Unfolding of the Rubredoxin Domain and the Natively Disordered N-terminal Region Regulate the Catalytic Activity of Mycobacterium tuberculosis Protein Kinase G. <i>Journal of Biological Chemistry</i> , 2016 , 291, 27062-27072	5.4	8
34	Redox-coupled substrate water reorganization in the active site of Photosystem II-The role of calcium in substrate water delivery. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016 , 1857, 740-8	4.6	79

(2011-2016)

Tuning the Protein-Induced Absorption Shifts of Retinal in Engineered Rhodopsin Mimics. <i>Chemistry - A European Journal</i> , 2016 , 22, 8254-61	4.8	17
Conversion of light-energy into molecular strain in the photocycle of the photoactive yellow protein. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2802-9	3.6	15
Exploring the Light-Capturing Properties of Photosynthetic Chlorophyll Clusters Using Large-Scale Correlated Calculations. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2644-51	6.4	26
New perspectives on proton pumping in cellular respiration. <i>Chemical Reviews</i> , 2015 , 115, 2196-221	68.1	175
Protein-Induced Color Shift of Carotenoids in ECrustacyanin. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11564-6	16.4	42
Redox-induced activation of the proton pump in the respiratory complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11571-6	11.5	86
Conformational processing of oncogenic v-Src kinase by the molecular chaperone Hsp90. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3189-98	11.5	62
Protein-induzierte Farbverschiebung von Carotenoiden in ECrustacyanin. <i>Angewandte Chemie</i> , 2015 , 127, 11726-11729	3.6	7
Accessory NUMM (NDUFS6) subunit harbors a Zn-binding site and is essential for biogenesis of mitochondrial complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5685-90	11.5	60
Linear energy relationships in ground state proton transfer and excited state proton-coupled electron transfer. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 2611-9	3.4	20
Coupled-cluster studies of extensive green fluorescent protein models using the reduced virtual space approach. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 2933-45	3.4	28
Contradictions in X-ray structures of intermediates in the photocycle of photoactive yellow protein. <i>Nature Chemistry</i> , 2014 , 6, 258-9	17.6	25
Spectral tuning of rhodopsin and visual cone pigments. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2723-6	16.4	40
Electrostatics, hydration, and proton transfer dynamics in the membrane domain of respiratory complex I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6988-93	11.5	76
Electrostatic spectral tuning mechanism of the green fluorescent protein. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4491-5	3.6	36
Dynamic water networks in cytochrome cbb3 oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 726-34	4.6	16
The effect of protein environment on photoexcitation properties of retinal. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2249-58	3.4	39
Reduction of the virtual space for coupled-cluster excitation energies of large molecules and embedded systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 214114	3.9	52
	Conversion of light-energy into molecular strain in the photocycle of the photoactive yellow protein. Physical Chemistry Chemical Physics, 2016, 18, 2802-9 Exploring the Light-Capturing Properties of Photosynthetic Chlorophyll Clusters Using Large-Scale Correlated Calculations. Journal of Chemical Theory and Computation, 2016, 12, 2644-51 New perspectives on proton pumping in cellular respiration. Chemical Reviews, 2015, 115, 2196-221 Protein-Induced Color Shift of Carotenoids in ECrustacyanin. Angewandte Chemie - International Edition, 2015, 54, 11564-6 Redox-induced activation of the proton pump in the respiratory complex I. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11571-6 Conformational processing of oncogenic v-Src kinase by the molecular chaperone Hsp90. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3189-98 Protein-induzierte Farbverschiebung von Carotenoiden in ECrustacyanin. Angewandte Chemie, 2015, 127, 11726-11729 Accessory NUMM (NDUFS6) subunit harbors a Zn-binding site and is essential for biogenesis of mitochondrial complex I. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5859-0 Linear energy relationships in ground state proton transfer and excited state proton-coupled electron transfer. Journal of Physical Chemistry B, 2015, 119, 2611-9 Coupled-cluster studies of extensive green fluorescent protein models using the reduced virtual space approach. Journal of Physical Chemistry B, 2015, 119, 2933-45 Contradictions in X-ray structures of intermediates in the photocycle of photoactive yellow protein. Nature Chemistry, 2014, 6, 258-9 Spectral tuning of rhodopsin and visual cone pigments. Journal of the American Chemical Society, 2014, 136, 2723-6 Electrostatic spectral tuning mechanism of the green fluorescent protein. Physical Chemistry Chemical Physics, 2013, 15, 4491-5 Dynamic water networks in cytochrome cbb3 oxidase. Biochimica Et Biophysica A	A European Journal, 2016, 22, 8254-61 Conversion of light-energy into molecular strain in the photocycle of the photoactive yellow protein. Physical Chemistry Chemical Physics, 2016, 18, 2802-9 Exploring the Light-Capturing Properties of Photosynthetic Chlorophyll Clusters Using Large-Scale Correlated Calculations. Journal of Chemical Theory and Computation, 2016, 12, 2644-51 New perspectives on proton pumping in cellular respiration. Chemical Reviews, 2015, 115, 2196-221 Redox-induced Color Shift of Carotenoids in Etrustacyanin. Angewandte Chemie - International Edition, 2015, 54, 11564-6 Redox-induced activation of the proton pump in the respiratory complex. I. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11571-6 Conformational processing of oncogenic v-Src kinase by the molecular chaperone Hsp90. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3189-98 Protein-induzierte Farbverschiebung von Carotenoiden in Etrustacyanin. Angewandte Chemie, 2015, 127, 11726-11729 Accessory NUMM (NDUFS6) subunit harbors a Zh-binding site and is essential for biogenesis of mitochondrial complex I. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5685-90 Linear energy relationships in ground state proton transfer and excited state proton-coupled electron transfer. Journal of Physical Chemistry B, 2015, 119, 2611-9 Coupled-cluster studies of extensive green fluorescent protein models using the reduced virtual space approach. Journal of Physical Chemistry B, 2015, 119, 2611-9 Spectral tuning of rhodopsin and visual cone pigments. Journal of the American Chemical Society, 2014, 16, 258-9 Spectral tuning of rhodopsin and visual cone pigments. Journal of the American Chemical Society, 2014, 1136, 2723-6 Electrostatic spectral tuning mechanism of the green fluorescent protein. Physical Chemistry 2014, 161, 249-58 Reduction of the virtual space for coupled-cluster excitation energies of la

15	The identity of the transient proton loading site of the proton-pumping mechanism of cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 80-4	4.6	67
14	A combined quantum chemical and crystallographic study on the oxidized binuclear center of cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 769-78	4.6	30
13	Stabilization of the peroxy intermediate in the oxygen splitting reaction of cytochrome cbb(3). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 813-8	4.6	14
12	Aromatic pathways in conjugated rings connected by single bonds. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 848-857	2.1	16
11	Energetics and dynamics of proton transfer reactions along short water wires. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13207-15	3.6	43
10	Energetics of direct and water-mediated proton-coupled electron transfer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19040-3	16.4	27
9	Benchmarking the Approximate Second-Order Coupled-Cluster Method on Biochromophores. Journal of Chemical Theory and Computation, 2011 , 7, 2473-84	6.4	39
8	Proton-coupled electron transfer in cytochrome oxidase. <i>Chemical Reviews</i> , 2010 , 110, 7062-81	68.1	414
7	Interheme electron tunneling in cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 21470-5	11.5	20
6	Redox-coupled proton transfer in the active site of cytochrome cbb3. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1512-20	4.6	13
5	The chemistry of the CuB site in cytochrome c oxidase and the importance of its unique His-Tyr bond. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 221-33	4.6	41
4	Mechanism and energetics by which glutamic acid 242 prevents leaks in cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 1205-14	4.6	46
3	Prevention of leak in the proton pump of cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 890-2	4.6	21
2	Glutamic acid 242 is a valve in the proton pump of cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6255-9	11.5	114
1	Charge parameterization of the metal centers in cytochrome c oxidase. <i>Journal of Computational Chemistry</i> , 2008 , 29, 753-67	3.5	45