

# Jonathan A Karty

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7670941/publications.pdf>

Version: 2024-02-01

82  
papers

2,985  
citations

136740

32  
h-index

189595

50  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring the Growth of a Bacteria Culture by MALDI-MS of Whole Cells. <i>Analytical Chemistry</i> , 1999, 71, 1990-1996.	3.2	159
2	Dipole-Promoted and Size-Dependent Cooperativity between Pyridyl-Containing Triazolophanes and Halides Leads to Persistent Sandwich Complexes with Iodide. <i>Journal of the American Chemical Society</i> , 2008, 130, 17293-17295.	6.6	139
3	Anions Stabilize Each Other inside Macrocyclic Hosts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14057-14062.	7.2	115
4	Enhancing the intensities of lysine-terminated tryptic peptide ions in matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 2147-2153.	0.7	108
5	Aromatic and Aliphatic CH Hydrogen Bonds Fight for Chloride while Competing Alongside Ion Pairing within Triazolophanes. <i>Chemistry - A European Journal</i> , 2011, 17, 312-321.	1.7	98
6	Modular Self-Assembly of Protein Cage Lattices for Multistep Catalysis. <i>ACS Nano</i> , 2018, 12, 942-953.	7.3	86
7	Nanoparticles by Decomposition of Long Chain Iron Carboxylates: From Spheres to Stars and Cubes. <i>Langmuir</i> , 2011, 27, 3044-3050.	1.6	72
8	A Class of Organopolysulfides As Liquid Cathode Materials for High-Energy-Density Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 21084-21090.	4.0	68
9	Artifacts and unassigned masses encountered in peptide mass mapping. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 782, 363-383.	1.2	67
10	Proteomic analysis of the <i>Caulobacter crescentus</i> stalk indicates competence for nutrient uptake. <i>Molecular Microbiology</i> , 2002, 45, 1029-1041.	1.2	67
11	Phenyl Selenosulfides as Cathode Materials for Rechargeable Lithium Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801791.	7.8	66
12	Phycocerythrin-specific bilin lyase isomerase controls blue-green chromatic acclimation in marine <i>Synechococcus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20136-20141.	3.3	64
13	<i>Drosophila</i> larvae synthesize the putative oncometabolite L-2-hydroxyglutarate during normal developmental growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1353-1358.	3.3	64
14	Phosphate phosphate oligomerization drives higher order co-assemblies with stacks of cyanostar macrocycles. <i>Chemical Science</i> , 2018, 9, 2863-2872.	3.7	63
15	Integrated Metabolomics Approach Facilitates Discovery of an Unpredicted Natural Product Suite from <i>Streptomyces coelicolor</i> M145. <i>ACS Chemical Biology</i> , 2013, 8, 2009-2016.	1.6	62
16	Multi-metal Restriction by Calprotectin Impacts De Novo Flavin Biosynthesis in <i>Acinetobacter baumannii</i> . <i>Cell Chemical Biology</i> , 2019, 26, 745-755.e7.	2.5	61
17	Catalytic reduction of ethyl chloroacetate by cobalt(I) salen electrogenerated at vitreous carbon cathodes. <i>Journal of Electroanalytical Chemistry</i> , 2000, 481, 24-33.	1.9	60
18	Two levels of conformational pre-organization consolidate strong CH hydrogen bonds in chloride triazolophane complexes. <i>Chemical Communications</i> , 2011, 47, 5979.	2.2	60

#	ARTICLE	IF	CITATIONS
19	IN A VARIABLE THERMAL ENVIRONMENT SELECTION FAVORS GREATER PLASTICITY OF CELL MEMBRANES IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1976-1984.	1.1	60
20	Ion Pairing and Coâ€facial Stacking Drive Highâ€Fidelity Bisulfate Assembly with Cyanostar Macrocyclic Hosts. <i>Chemistry - A European Journal</i> , 2017, 23, 10652-10662.	1.7	56
21	Vitamin <scp>B</scp> <sub>12</sub> regulates photosystem gene expression via the <scp>CrtJ</scp> antirepressor <scp>AerR</scp> in <scp>i>R</i></scp> <i>hodobacter capsulatus</i>. <i>Molecular Microbiology</i> , 2014, 91, 649-664.	1.2	53
22	A Transient Vanadium(III) Neopentylidene Complex. Redox Chemistry and Reactivity of the Vâ•CH<sup>i>t</i></sup>Bu Functionality. <i>Organometallics</i> , 2009, 28, 843-852.	1.1	52
23	Nanopipettes: probes for local sample analysis. <i>Chemical Science</i> , 2015, 6, 3334-3341.	3.7	50
24	Electrochemical reduction of (1R,2r,3S,4R,5r,6S)-hexachlorocyclohexane (Lindane) at silver cathodes in organic and aqueousâ€organic media. <i>Journal of Electroanalytical Chemistry</i> , 2013, 692, 66-71.	1.9	47
25	Capillary electrophoresisâ€mass spectrometry for direct structural identification of serum N-glycans. <i>Journal of Chromatography A</i> , 2017, 1523, 127-139.	1.8	47
26	<i>Escherichia coli</i> cultures maintain stable subpopulation structure during long-term evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4642-E4650.	3.3	46
27	RegB Kinase Activity Is Repressed by Oxidative Formation of Cysteine Sulfenic Acid. <i>Journal of Biological Chemistry</i> , 2013, 288, 4755-4762.	1.6	43
28	Lesions in Phycoerythrin Chromophore Biosynthesis in <i>Fremyella diplosiphon</i> Reveal Coordinated Light Regulation of Apoprotein and Pigment Biosynthetic Enzyme Gene Expression. <i>Plant Cell</i> , 2003, 15, 2448-2463.	3.1	40
29	Two Distinct Cyclodipeptide Synthases from a Marine Actinomycete Catalyze Biosynthesis of the Same Diketopiperazine Natural Product. <i>ACS Synthetic Biology</i> , 2016, 5, 547-553.	1.9	38
30	Electrochemistry of substituted salen complexes of nickel(II): Nickel(I)-catalyzed reduction of alkyl and acetylenic halides. <i>Journal of Electroanalytical Chemistry</i> , 2010, 647, 194-203.	1.9	37
31	Profiling and quantification of <i>Drosophila melanogaster</i> lipids using liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2959-2968.	0.7	37
32	Synergism between genome sequencing, tandem mass spectrometry and bio-inspired synthesis reveals insights into nocardioazine B biogenesis. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7177-7192.	1.5	37
33	Self-regulating genomic island encoding tandem regulators confers chromatic acclimation to marine <i>Synechococcus</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6077-6082.	3.3	37
34	Catalytic reduction of 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) by cobalt(I) salen electrogenerated at vitreous carbon cathodes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 568, 157-165.	1.9	33
35	A Top-Down/Bottom-Up Study of the Ribosomal Proteins of <i>Caulobacter crescentus</i> . <i>Journal of Proteome Research</i> , 2007, 6, 337-347.	1.8	31
36	Catalytic reduction of hexachlorobenzene and pentachlorobenzene by cobalt(I) salen electrogenerated at vitreous carbon cathodes in dimethylformamide. <i>Journal of Electroanalytical Chemistry</i> , 2008, 612, 22-28.	1.9	31

#	ARTICLE	IF	CITATIONS
37	Activity of the tetrapyrrole regulator CrtJ is controlled by oxidation of a redox active cysteine located in the DNA binding domain. <i>Molecular Microbiology</i> , 2012, 85, 734-746.	1.2	31
38	Deamidation as a Consequence of $\beta^2$ -Elimination of Phosphopeptides. <i>Analytical Chemistry</i> , 2005, 77, 4673-4676.	3.2	29
39	Detection of the bacteriological sex factor in <i>E. coli</i> by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1998, 12, 625-629.	0.7	28
40	Tellus in, Tellus out: The Chemistry of the Vanadium Bis(telluride) Functionality. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2394-2397.	7.2	28
41	Lactate dehydrogenase and glycerol-3-phosphate dehydrogenase cooperatively regulate growth and carbohydrate metabolism during <i>Drosophila melanogaster</i> larval development. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	28
42	Formation and Reactivity of the Terminal Vanadium Nitride Functionality. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3916-3929.	1.0	26
43	Defining Absolute Confidence Limits in the Identification of <i>Caulobacter</i> Proteins by Peptide Mass Mapping. <i>Journal of Proteome Research</i> , 2002, 1, 325-335.	1.8	25
44	Alkyl Group Incorporation into Nickel Salen during Controlled-Potential Electrolyses in the Presence of Alkyl Halides. <i>Journal of the Electrochemical Society</i> , 2006, 153, E71.	1.3	25
45	Anions Stabilize Each Other inside Macrocyclic Hosts. <i>Angewandte Chemie</i> , 2016, 128, 14263-14268.	1.6	25
46	Interplay between differentially expressed enzymes contributes to light color acclimation in marine <i>Synechococcus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6457-6462.	3.3	25
47	Stoichiometric reduction of primary alkyl monohalides with electrogenerated nickel(II) salen: Formation of aldehydes. <i>Journal of Electroanalytical Chemistry</i> , 2005, 580, 300-312.	1.9	23
48	Catalytic Reduction of 1,1,1-Trichloro-2,2,2-trifluoroethane (CFC-113a) by Cobalt(II) Salen Electrogenerated at Vitreous Carbon Cathodes in Dimethylformamide. <i>Journal of the Electrochemical Society</i> , 2007, 154, F65.	1.3	23
49	Two dimensional liquid phase separations of proteins using online fractionation and concentration between chromatographic dimensions. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 847, 103-113.	1.2	23
50	Direct and cobalt(II) salen-catalyzed reduction of 2,6-bis(chloromethyl)pyridine at carbon cathodes in acetonitrile. <i>Journal of Electroanalytical Chemistry</i> , 2001, 516, 50-58.	1.9	22
51	Direct and nickel(II) salen-catalyzed reduction of 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) in dimethylformamide. <i>Journal of Electroanalytical Chemistry</i> , 2012, 676, 6-12.	1.9	22
52	Catalytic reduction of ethyl chloroacetate by cobalt(II) salophen electrogenerated at vitreous carbon cathodes. <i>Journal of Electroanalytical Chemistry</i> , 2002, 531, 163-169.	1.9	21
53	Redox and Light Control the Heme-Sensing Activity of AppA. <i>MBio</i> , 2013, 4, e00563-13.	1.8	21
54	Ligand Influence on Metal Aggregation: a Unique Bonding Mode for Pyridylpyrrolides. <i>Inorganic Chemistry</i> , 2010, 49, 7626-7628.	1.9	18

#	ARTICLE	IF	CITATIONS
55	Alkylation of [2,2'-([2,2'-bipyridine]-6,6'-diyl)bis[phenolato]-N,N',O,O']nickel(II) during catalytic reduction of 1-iodooctane. <i>Journal of Electroanalytical Chemistry</i> , 2004, 564, 123-132.	1.9	17
56	Catalytic reduction of 4,4'-(2,2,2-trichloroethane-1,1-diyl)bis(chlorobenzene) (DDT) with nickel(I) salen electrogenerated at vitreous carbon cathodes in dimethylformamide. <i>Journal of Electroanalytical Chemistry</i> , 2013, 706, 55-63.	1.9	17
57	Catalytic Reduction of 4,4'-([2,2'-Trichloroethane-1,1-diyl)bis(chlorobenzene) with Cobalt(I) Salen Electrogenerated at Vitreous Carbon Cathodes in Dimethylformamide. <i>Journal of the Electrochemical Society</i> , 2007, 154, F1.	1.3	16
58	CpeF is the bilin lyase that ligates the doubly linked phycoerythrobilin on $\hat{1}^2$ -phycoerythrin in the cyanobacterium <i>Fremyella diplosiphon</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 3987-3999.	1.6	16
59	Molecular bases of an alternative dual-enzyme system for light color acclimation of marine <i>Synechococcus</i> cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
60	Arsenic exposure induces a bimodal toxicity response in zebrafish. <i>Environmental Pollution</i> , 2021, 287, 117637.	3.7	16
61	Fluorination studies of the [commo-3,3'-Co(3,1,2-CoC2B9H11)2 <sup>+</sup> ] ion. <i>Journal of Organometallic Chemistry</i> , 2000, 614-615, 120-124.	0.8	15
62	Chelation-induced diradical formation as an approach to modulation of the amyloid- $\hat{1}^2$ aggregation pathway. <i>Chemical Science</i> , 2015, 6, 1018-1026.	3.7	15
63	Local collection, reaction and analysis with theta pipette emitters. <i>Analyst</i> , 2017, 142, 1512-1518.	1.7	15
64	Characterization of a Glycyl Radical Enzyme Bacterial Microcompartment Pathway in <i>Rhodobacter capsulatus</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	15
65	Electrosynthesis of 4-Methylcoumarin via Cobalt(I)-Catalyzed Reduction of 2-Acetylphenyl 2-Chloroacetate or 2-Acetylphenyl 2,2-Dichloroacetate. <i>Journal of the Electrochemical Society</i> , 2007, 154, F231.	1.3	13
66	Mechanistic Understanding of a Silver Pyridylpyrrolide as a Catalyst for 3 + 2 Cyclization of a Nitrile with Diazo Ester. <i>Organometallics</i> , 2014, 33, 1544-1552.	1.1	13
67	Catalytic reduction of 4,4'-(2,2,2-trichloroethane-1,1-diyl)bis(methoxybenzene) (methoxychlor) with nickel(I) salen electrogenerated at reticulated vitreous carbon cathodes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 772, 66-72.	1.9	10
68	Biogeochemical evidence for environmental changes of Pleistocene Lake Olduvai during the transitional sequence of OGCP core 2A that encompasses Tuff IB (~1.848 Ma). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 532, 109267.	1.0	10
69	The roles of the chaperone-like protein CpeZ and the phycoerythrobilin lyase CpeY in phycoerythrin biogenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 549-561.	0.5	9
70	MpeV is a lyase isomerase that ligates a doubly linked phycourobilin on the $\hat{1}^2$ -subunit of phycoerythrin I and II in marine <i>Synechococcus</i> . <i>Journal of Biological Chemistry</i> , 2021, 296, 100031.	1.6	9
71	Accurate Mass MS/MS/MS Analysis of Siderophores Ferrioxamine B and E1 by Collision-Induced Dissociation Electrospray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1899-1902.	1.2	8
72	Biogeochemical evidence from OGCP Core 2A sediments for environmental changes preceding deposition of Tuff IB and climatic transitions in Upper Bed I of the Olduvai Basin. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 555, 109824.	1.0	8

#	ARTICLE	IF	CITATIONS
73	The oncometabolite L-2-hydroxyglutarate is a common product of dipteran larval development. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 127, 103493.	1.2	7
74	Direct Electrochemical Reduction of Acetochlor at Carbon and Silver Cathodes in Dimethylformamide. <i>Journal of the Electrochemical Society</i> , 2020, 167, 155517.	1.3	7
75	Câ€F Bond Activation in the Solid State: Functionalization of Carbon through Reactions of Graphite Fluoride with Amines. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10326-10333.	1.5	6
76	Metabolomic Analysis Reveals That the <i>Drosophila melanogaster</i> Gene <i>lysine</i> Influences Diverse Aspects of Metabolism. <i>Genetics</i> , 2017, 207, 1255-1261.	1.2	5
77	CpeT is the phycoerythrobilin lyase for Cys-165 on Î²-phycoerythrin from <i>Fremyella diplosiphon</i> and the chaperone-like protein CpeZ greatly improves its activity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148284.	0.5	5
78	CpeY is a phycoerythrobilin lyase for cysteine 82 of the phycoerythrin I Î±-subunit in marine <i>Synechococcus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148215.	0.5	5
79	Direct Reduction of 1-Bromo-6-chlorohexane and 1-Chloro-6-iodohexane at Silver Cathodes in Dimethylformamide. <i>Electrochimica Acta</i> , 2016, 218, 311-317.	2.6	4
80	Electrosynthesis of a Baurone by Controlled Dimerization of Flavone: Mechanistic Insight and Large-Scale Application. <i>Journal of Organic Chemistry</i> , 2020, 85, 10658-10669.	1.7	3
81	Bacterial Strain Differentiation by Mass Spectrometry. , 2006, , 181-201.		2
82	Neuroprotective peptide ADNF-9 in fetal brain of C57BL/6 mice exposed prenatally to alcohol. <i>Journal of Biomedical Science</i> , 2011, 18, 77.	2.6	2