

Junko Yano

List of Publications by Year in descending order

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121
papers

13,151
citations

28274

55
h-index

22832

112
g-index

124
all docs

124
docs citations

124
times ranked

14369
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and Activity of Cobalt Antimonate for Oxygen Reduction in Strong Acid. ACS Energy Letters, 2022, 7, 993-1000.	17.4	21
2	Characterization of Chemically Modified TiO ₂ Synthesized via Sustainable Superoxidation of Ti. Journal of Physical Chemistry C, 2022, 126, 6223-6230.	3.1	1
3	Generation of intense phase-stable femtosecond hard X-ray pulse pairs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119616119.	7.1	4
4	XFEL serial crystallography reveals the room temperature structure of methyl-coenzyme M reductase. Journal of Inorganic Biochemistry, 2022, 230, 111768.	3.5	6
5	The case for data science in experimental chemistry: examples and recommendations. Nature Reviews Chemistry, 2022, 6, 357-370.	30.2	29
6	Addressing solar photochemistry durability with an amorphous nickel antimonate photoanode. Cell Reports Physical Science, 2022, 3, 100959.	5.6	6
7	CuBi ₂ O ₄ : Electronic Structure, Optical Properties, and Photoelectrochemical Performance Limitations of the Photocathode. Chemistry of Materials, 2021, 33, 934-945.	6.7	45
8	Carbon dioxide adsorption and activation on gallium phosphide surface monitored by ambient pressure x-ray photoelectron spectroscopy. Journal Physics D: Applied Physics, 2021, 54, 234002.	2.8	2
9	Using X-ray free-electron lasers for spectroscopy of molecular catalysts and metalloenzymes. Nature Reviews Physics, 2021, 3, 264-282.	26.6	60
10	Reply to Wang et al.: Clear evidence of binding of O _x to the oxygen-evolving complex of photosystem II is best observed in the omit map. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2102342118.	7.1	7
11	Resonant X-ray emission spectroscopy from broadband stochastic pulses at an X-ray free electron laser. Communications Chemistry, 2021, 4, .	4.5	4
12	Dynamics and Hysteresis of Hydrogen Intercalation and Deintercalation in Palladium Electrodes: A Multimodal <i>In Situ</i> X-ray Diffraction, Coulometry, and Computational Study. Chemistry of Materials, 2021, 33, 5872-5884.	6.7	11
13	An on-demand, drop-on-drop method for studying enzyme catalysis by serial crystallography. Nature Communications, 2021, 12, 4461.	12.8	34
14	X-ray free-electron laser studies reveal correlated motion during isopenicillin <i>N</i> synthase catalysis. Science Advances, 2021, 7, .	10.3	23
15	Band Edge Energy Tuning through Electronic Character Hybridization in Ternary Metal Vanadates. Chemistry of Materials, 2021, 33, 7242-7253.	6.7	7
16	Photosynthesis Photosystem II: Water Oxidation, Overview. , 2021, , 229-235.		1
17	Oxidation State and Surface Reconstruction of Cu under CO ₂ Reduction Conditions from <i>In Situ</i> X-ray Characterization. Journal of the American Chemical Society, 2021, 143, 588-592.	13.7	172
18	Tracing the incorporation of the ϵ -ninth sulfur into the nitrogenase cofactor precursor with selenite and tellurite. Nature Chemistry, 2021, 13, 1228-1234.	13.6	12

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19	Room temperature XFEL crystallography reveals asymmetry in the vicinity of the two phylloquinones in photosystem I. <i>Scientific Reports</i> , 2021, 11, 21787.	3.3	11
20	Investigation and mitigation of degradation mechanisms in Cu ₂ O photoelectrodes for CO ₂ reduction to ethylene. <i>Nature Energy</i> , 2021, 6, 1124-1132.	39.5	85
21	Effects of x-ray free-electron laser pulse intensity on the Mn K β _{1,3} x-ray emission spectrum in photosystem II: A case study for metalloprotein crystals and solutions. <i>Structural Dynamics</i> , 2021, 8, 064302.	2.3	10
22	Structural dynamics in the water and proton channels of photosystem II during the S ₂ to S ₃ transition. <i>Nature Communications</i> , 2021, 12, 6531.	12.8	73
23	Photoreversible interconversion of a phytochrome photosensory module in the crystalline state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 300-307.	7.1	19
24	Mixed-Valent Diiron μ_4 -Carbyne, μ_4 -Hydride Complexes: Implications for Nitrogenase. <i>Journal of the American Chemical Society</i> , 2020, 142, 18795-18813.	13.7	13
25	High-Resolution XFEL Structure of the Soluble Methane Monooxygenase Hydroxylase Complex with its Regulatory Component at Ambient Temperature in Two Oxidation States. <i>Journal of the American Chemical Society</i> , 2020, 142, 14249-14266.	13.7	41
26	$S = 3$ Ground State for a Tetranuclear Mn ^{IV} ₄ O ₄ Complex Mimicking the S ₃ State of the Oxygen-Evolving Complex. <i>Journal of the American Chemical Society</i> , 2020, 142, 3753-3761.	13.7	22
27	Observation of Seeded Mn K β Stimulated X-Ray Emission Using Two-Color X-Ray Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2020, 125, 037404.	7.8	20
28	Metal-Ligand Cooperativity via Exchange Coupling Promotes Iron-Catalyzed Electrochemical CO ₂ Reduction at Low Overpotentials. <i>Journal of the American Chemical Society</i> , 2020, 142, 20489-20501.	13.7	77
29	New reflections on hard X-ray photon-in/photon-out spectroscopy. <i>Nanoscale</i> , 2020, 12, 16270-16284.	5.6	21
30	N-Heterocyclic Linkages Are Produced from Condensation of Amidines onto Graphitic Carbon. <i>Chemistry of Materials</i> , 2020, 32, 8512-8521.	6.7	4
31	Random forest machine learning models for interpretable X-ray absorption near-edge structure spectrum-property relationships. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	94
32	Mesoscopic to Macroscopic Electron Transfer by Hopping in a Crystal Network of Cytochromes. <i>Journal of the American Chemical Society</i> , 2020, 142, 10459-10467.	13.7	13
33	Synergy between a Silver-Copper Surface Alloy Composition and Carbon Dioxide Adsorption and Activation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25374-25382.	8.0	19
34	Reversible Interlayer Sliding and Conductivity Changes in Adaptive Tetrathiafulvalene-Based Covalent Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19054-19061.	8.0	40
35	Artificial Iron Proteins: Modeling the Active Sites in Non-Heme Dioxygenases. <i>Inorganic Chemistry</i> , 2020, 59, 6000-6009.	4.0	10
36	Operando X-ray absorption spectroscopy of hyperfine ^{57}Fe -FeOOH nanorods modified with amorphous Ni(OH) ₂ under electrocatalytic water oxidation conditions. <i>Chemical Communications</i> , 2020, 56, 5158-5161.	4.1	12

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37	Untangling the sequence of events during the S ₂ → S ₃ transition in photosystem II and implications for the water oxidation mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12624-12635.	7.1	149
38	Towards the spatial resolution of metalloprotein charge states by detailed modeling of XFEL crystallographic diffraction. Acta Crystallographica Section D: Structural Biology, 2020, 76, 176-192.	2.3	14
39	Beyond integration: modeling every pixel to obtain better structure factors from stills. IUCr, 2020, 7, 1151-1167.	2.2	8
40	XANES and EXAFS of dilute solutions of transition metals at XFELs. Journal of Synchrotron Radiation, 2019, 26, 1716-1724.	2.4	16
41	Iron detection and remediation with a functionalized porous polymer applied to environmental water samples. Chemical Science, 2019, 10, 6651-6660.	7.4	30
42	Effect of oxygen deficiency on the excited state kinetics of WO ₃ and implications for photocatalysis. Chemical Science, 2019, 10, 5667-5677.	7.4	97
43	Dramatic differences in carbon dioxide adsorption and initial steps of reduction between silver and copper. Nature Communications, 2019, 10, 1875.	12.8	63
44	Structural isomers of the S ₂ state in photosystem II: do they exist at room temperature and are they important for function?. Physiologia Plantarum, 2019, 166, 60-72.	5.2	30
45	Hybrid Thermoelectrics: Molecular Level Insight into Enhanced n-Type Transport in Solution-Printed Hybrid Thermoelectrics (Adv. Energy Mater. 13/2019). Advanced Energy Materials, 2019, 9, 1970041.	19.5	0
46	Initial Steps in Forming the Electrode-Electrolyte Interface: H ₂ O Adsorption and Complex Formation on the Ag(111) Surface from Combining Quantum Mechanics Calculations and Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2019, 141, 6946-6954.	18.7	19
47	Electrochemical flow cell enabling <i>in operando</i> probing of electrocatalyst surfaces by X-ray spectroscopy and diffraction. Physical Chemistry Chemical Physics, 2019, 21, 5402-5408.	2.8	38
48	Molecular Level Insight into Enhanced n-Type Transport in Solution-Printed Hybrid Thermoelectrics. Advanced Energy Materials, 2019, 9, 1803469.	19.5	14
49	Direct Determination of Absolute Absorption Cross Sections at the L-Edge of Dilute Mn Complexes in Solution Using a Transmission Flatjet. Inorganic Chemistry, 2018, 57, 5449-5462.	4.0	32
50	Stimulated X-Ray Emission Spectroscopy in Transition Metal Complexes. Physical Review Letters, 2018, 120, 133203.	7.8	48
51	Probing the Surface of Platinum during the Hydrogen Evolution Reaction in Alkaline Electrolyte. Journal of Physical Chemistry B, 2018, 122, 864-870.	2.6	50
52	Combinatorial Discovery of Lanthanum-Tantalum Oxynitride Solar Light Absorbers with Dilute Nitrogen for Solar Fuel Applications. ACS Combinatorial Science, 2018, 20, 26-34.	3.8	15
53	Optimizing Crystal Size of Photosystem II by Macroseeded: Toward Neutron Protein Crystallography. Crystal Growth and Design, 2018, 18, 85-94.	3.0	9
54	Structures of the intermediates of Kok's photosynthetic water oxidation clock. Nature, 2018, 563, 421-425.	27.8	386

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55	Improving signal strength in serial crystallography with <i>DIALS</i> geometry refinement. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 877-894.	2.3	49
56	Tetranuclear [Mn ^{III} Mn ₃ ^{IV} O ₄] Complexes as Spectroscopic Models of the S ₂ State of the Oxygen Evolving Complex in Photosystem II. <i>Journal of the American Chemical Society</i> , 2018, 140, 17175-17187.	13.7	34
57	Stabilizing the Meniscus for Operando Characterization of Platinum During the Electrolyte-Consuming Alkaline Oxygen Evolution Reaction. <i>Topics in Catalysis</i> , 2018, 61, 2152-2160.	2.8	28
58	Rutile Alloys in the Mn-Sb-O System Stabilize Mn ³⁺ To Enable Oxygen Evolution in Strong Acid. <i>ACS Catalysis</i> , 2018, 8, 10938-10948.	11.2	97
59	Cr L-Edge X-ray Absorption Spectroscopy of Cr ^{III} (acac) ₃ in Solution with Measured and Calculated Absolute Absorption Cross Sections. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7375-7384.	2.6	18
60	Probing the oxidation state of transition metal complexes: a case study on how charge and spin densities determine Mn L-edge X-ray absorption energies. <i>Chemical Science</i> , 2018, 9, 6813-6829.	7.4	60
61	X-ray-induced sample damage at the Mn L-edge: a case study for soft X-ray spectroscopy of transition metal complexes in solution. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16817-16827.	2.8	23
62	X-ray Emission Spectroscopy as an <i>In Situ</i> Diagnostic Tool for X-ray Crystallography of Metalloproteins Using an X-ray Free-Electron Laser. <i>Biochemistry</i> , 2018, 57, 4629-4637.	2.5	39
63	X-Ray Spectroscopy with XFELs. , 2018, , 377-399.		1
64	Drop-on-demand sample delivery for studying biocatalysts in action at X-ray free-electron lasers. <i>Nature Methods</i> , 2017, 14, 443-449.	19.0	150
65	Accelerated Oxygen Atom Transfer and C-H Bond Oxygenation by Remote Redox Changes in Fe ₃ Mn- κ -osobenzene Adducts. <i>Angewandte Chemie</i> , 2017, 129, 4850-4854.	2.0	3
66	Determining Atomic-Scale Structure and Composition of Organo-Lead Halide Perovskites by Combining High-Resolution X-ray Absorption Spectroscopy and First-Principles Calculations. <i>ACS Energy Letters</i> , 2017, 2, 1183-1189.	17.4	23
67	In situ/Operando studies of electrocatalysts using hard X-ray spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 221, 18-27.	1.7	53
68	Understanding the Oxygen Evolution Reaction Mechanism on CoO _x using <i>Operando</i> Ambient-Pressure X-ray Photoelectron Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 8960-8970.	13.7	241
69	Subsurface oxide plays a critical role in CO ₂ activation by Cu(111) surfaces to form chemisorbed CO ₂ , the first step in reduction of CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6706-6711.	7.1	363
70	Accelerated Oxygen Atom Transfer and C-H Bond Oxygenation by Remote Redox Changes in Fe ₃ Mn- κ -osobenzene Adducts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4772-4776.	13.8	23
71	An Operando Investigation of (Ni-Fe-Co-Ce)O _x System as Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 1248-1258.	11.2	156
72	Mechanistic Evidence for Ligand-Centered Electrocatalytic Oxygen Reduction with the Conductive MOF Ni ₃ (hexaiminotriphenylene) ₂ . <i>ACS Catalysis</i> , 2017, 7, 7726-7731.	11.2	164

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73	Soft x-ray absorption spectroscopy of metalloproteins and high-valent metal-complexes at room temperature using free-electron lasers. <i>Structural Dynamics</i> , 2017, 4, 054307.	2.3	34
74	<i>Operando</i> Spectroscopic Analysis of CoP Films Electrocatalyzing the Hydrogen-Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 12927-12930.	13.7	127
75	Signature of Metallic Behavior in the Metal-Organic Frameworks $M_3(\text{hexaiminobenzene})_2$ ($M = \text{Ni, Cu}$). <i>Journal of the American Chemical Society</i> , 2017, 139, 13608-13611.	13.7	324
76	Universal Surface Engineering of Transition Metals for Superior Electrocatalytic Hydrogen Evolution in Neutral Water. <i>Journal of the American Chemical Society</i> , 2017, 139, 12283-12290.	13.7	207
77	A multifunctional biphasic water splitting catalyst tailored for integration with high-performance semiconductor photoanodes. <i>Nature Materials</i> , 2017, 16, 335-341.	27.5	217
78	Structural insights into the light-driven auto-assembly process of the water-oxidizing Mn_4CaO_5 -cluster in photosystem II. <i>ELife</i> , 2017, 6, .	6.0	62
79	X-ray absorption spectroscopy using a self-seeded soft X-ray free-electron laser. <i>Optics Express</i> , 2016, 24, 22469.	3.4	19
80	No observable conformational changes in PSII. <i>Nature</i> , 2016, 533, E1-E2.	27.8	40
81	Structural changes correlated with magnetic spin state isomorphism in the S_2 state of the Mn_4CaO_5 cluster in the oxygen-evolving complex of photosystem II. <i>Chemical Science</i> , 2016, 7, 5236-5248.	7.4	39
82	Structure of photosystem II and substrate binding at room temperature. <i>Nature</i> , 2016, 540, 453-457.	27.8	323
83	Unravelling the electrochemical double layer by direct probing of the solid/liquid interface. <i>Nature Communications</i> , 2016, 7, 12695.	12.8	267
84	High-density grids for efficient data collection from multiple crystals. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 2-11.	2.3	62
85	Acoustic Injectors for Drop-On-Demand Serial Femtosecond Crystallography. <i>Structure</i> , 2016, 24, 631-640.	3.3	88
86	Concentric-flow electrokinetic injector enables serial crystallography of ribosome and photosystem II. <i>Nature Methods</i> , 2016, 13, 59-62.	19.0	103
87	Improvements in serial femtosecond crystallography of photosystem II by optimizing crystal uniformity using microseeding procedures. <i>Structural Dynamics</i> , 2015, 2, .	2.3	30
88	Multiphase Nanostructure of a Quinary Metal Oxide Electrocatalyst Reveals a New Direction for OER Electrocatalyst Design. <i>Advanced Energy Materials</i> , 2015, 5, 1402307.	19.5	85
89	Simultaneous detection of electronic structure changes from two elements of a bifunctional catalyst using wavelength-dispersive X-ray emission spectroscopy and in situ electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8901-8912.	2.8	45
90	High-spin Mn-oxo complexes and their relevance to the oxygen-evolving complex within photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5319-5324.	7.1	123

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91	Graphite-Conjugated Pyrazines as Molecularly Tunable Heterogeneous Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2015, 137, 10926-10929.	13.7	95
92	Metalloprotein structures at ambient conditions and in real-time: biological crystallography and spectroscopy using X-ray free electron lasers. <i>Current Opinion in Structural Biology</i> , 2015, 34, 87-98.	5.7	34
93	Methods development for diffraction and spectroscopy studies of metalloenzymes at X-ray free-electron lasers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130590.	4.0	23
94	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. <i>Nature Methods</i> , 2014, 11, 545-548.	19.0	140
95	Efficient and Sustained Photoelectrochemical Water Oxidation by Cobalt Oxide/Silicon Photoanodes with Nanotextured Interfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 6191-6194.	13.7	204
96	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. <i>Nature Communications</i> , 2014, 5, 4371.	12.8	206
97	Electronic Structure of Monoclinic BiVO ₄ . <i>Chemistry of Materials</i> , 2014, 26, 5365-5373.	6.7	356
98	Mn ₄ Ca Cluster in Photosynthesis: Where and How Water is Oxidized to Dioxygen. <i>Chemical Reviews</i> , 2014, 114, 4175-4205.	47.7	574
99	The Mn ₄ Ca photosynthetic water-oxidation catalyst studied by simultaneous X-ray spectroscopy and crystallography using an X-ray free-electron laser. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130324.	4.0	17
100	Role of oxido incorporation and ligand lability in expanding redox accessibility of structurally related Mn ₄ clusters. <i>Chemical Science</i> , 2013, 4, 3986.	7.4	40
101	Structural Changes of the Oxygen-evolving Complex in Photosystem II during the Catalytic Cycle. <i>Journal of Biological Chemistry</i> , 2013, 288, 22607-22620.	3.4	145
102	Electrodeposited Cobalt-Sulfide Catalyst for Electrochemical and Photoelectrochemical Hydrogen Generation from Water. <i>Journal of the American Chemical Society</i> , 2013, 135, 17699-17702.	13.7	540
103	L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3641-3647.	4.6	64
104	Simultaneous Femtosecond X-ray Spectroscopy and Diffraction of Photosystem II at Room Temperature. <i>Science</i> , 2013, 340, 491-495.	12.6	378
105	Redox-inactive metals modulate the reduction potential in heterometallic manganese-oxido clusters. <i>Nature Chemistry</i> , 2013, 5, 293-299.	13.6	289
106	In Situ X-ray Absorption Spectroscopy Investigation of a Bifunctional Manganese Oxide Catalyst with High Activity for Electrochemical Water Oxidation and Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2013, 135, 8525-8534.	13.7	478
107	Electronic Structural Changes of Mn in the Oxygen-Evolving Complex of Photosystem II during the Catalytic Cycle. <i>Inorganic Chemistry</i> , 2013, 52, 5642-5644.	4.0	57
108	Energy-dispersive X-ray emission spectroscopy using an X-ray free-electron laser in a shot-by-shot mode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19103-19107.	7.1	113

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109	Synthetic model of the asymmetric [Mn ₃ Ca ₄] cubane core of the oxygen-evolving complex of photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2257-2262.	7.1	259
110	Nanoflow electrospinning serial femtosecond crystallography. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1584-1587.	2.5	167
111	Room temperature femtosecond X-ray diffraction of photosystem II microcrystals. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9721-9726.	7.1	144
112	A multi-crystal wavelength dispersive x-ray spectrometer. Review of Scientific Instruments, 2012, 83, 073114.	1.3	130
113	Structure and Valency of a Cobalt ^{II} -Phosphate Water Oxidation Catalyst Determined by in Situ X-ray Spectroscopy. Journal of the American Chemical Society, 2010, 132, 13692-13701.	13.7	649
114	X-ray absorption spectroscopy. Photosynthesis Research, 2009, 102, 241-254.	2.9	285
115	X-ray spectroscopy of the photosynthetic oxygen-evolving complex. Coordination Chemistry Reviews, 2008, 252, 318-335.	18.8	133
116	Where Water Is Oxidized to Dioxygen: Structure of the Photosynthetic Mn ₄ Ca Cluster from X-ray Spectroscopy. Inorganic Chemistry, 2008, 47, 1711-1726.	4.0	143
117	Structural changes in the Mn ₄ Ca cluster and the mechanism of photosynthetic water splitting. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1879-1884.	7.1	174
118	Where Water Is Oxidized to Dioxygen: Structure of the Photosynthetic Mn ₄ Ca Cluster. Science, 2006, 314, 821-825.	12.6	782
119	X-ray damage to the Mn ₄ Ca complex in single crystals of photosystem II: A case study for metalloprotein crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12047-12052.	7.1	585
120	The Electronic Structure of Mn in Oxides, Coordination Complexes, and the Oxygen-Evolving Complex of Photosystem II Studied by Resonant Inelastic X-ray Scattering. Journal of the American Chemical Society, 2004, 126, 9946-9959.	13.7	177
121	Droplet On Tape: Protocol. Protocol Exchange, 0, , .	0.3	3