

Peng Chen

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.

78
papers

6,091
citations

40
h-index

78
g-index

90
ext. papers

6,778
ext. citations

14.4
avg, IF

5.81
L-index

#	Paper	IF	Citations
78	Scanning Electrochemical and Photoelectrochemical Microscopy on Finder Grids: Toward Correlative Multitechnique Imaging of Surfaces. <i>Analytical Chemistry</i> , 2021 , 93, 5377-5382	7.8	0
77	Real-Time Single-Polymer Growth towards Single-Monomer Resolution. <i>Trends in Chemistry</i> , 2021 , 3, 318-331	14.8	0
76	Nanoscale cooperative adsorption for materials control. <i>Nature Communications</i> , 2021 , 12, 4287	17.4	6
75	Stochastic Kinetics of Nanocatalytic Systems. <i>Physical Review Letters</i> , 2021 , 126, 126001	7.4	1
74	Single-chain polymerization dynamics and conformational mechanics of conjugated polymers. <i>Chem</i> , 2021 , 7, 2175-2189	16.2	4
73	Inter-facet junction effects on particulate photoelectrodes.. <i>Nature Materials</i> , 2021 ,	27	6
72	Metal-induced sensor mobilization turns on affinity to activate regulator for metal detoxification in live bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13248-13255	11.5	2
71	Exploring Plasmonic Photocatalysis via Single-Molecule Reaction Imaging. <i>Nano Letters</i> , 2020 , 20, 2939-2949	29.4	6
70	Graphene-assisted spontaneous relaxation towards dislocation-free heteroepitaxy. <i>Nature Nanotechnology</i> , 2020 , 15, 272-276	28.7	32
69	Biphasic unbinding of a metalloregulator from DNA for transcription (de)repression in Live Bacteria. <i>Nucleic Acids Research</i> , 2020 , 48, 2199-2208	20.1	2
68	Heterogeneous integration of single-crystalline complex-oxide membranes. <i>Nature</i> , 2020 , 578, 75-81	50.4	107
67	Analogy between Enzyme and Nanoparticle Catalysis: A Single-Molecule Perspective. <i>ACS Catalysis</i> , 2019 , 9, 1985-1992	13.1	19
66	Correlated Single-Molecule Reaction Imaging and Photocurrent Measurements Reveal Underlying Rate Processes in Photoelectrochemical Water Splitting. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H3286-H3293	3.9	5
65	Super-resolution imaging of non-fluorescent reactions via competition. <i>Nature Chemistry</i> , 2019 , 11, 687-694	69.6	37
64	Mechanical stress compromises multicomponent efflux complexes in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25462-25467	11.5	9
63	Quantifying Photocurrent Loss of a Single Particle-Particle Interface in Nanostructured Photoelectrodes. <i>Nano Letters</i> , 2019 , 19, 958-962	11.5	8
62	Facilitated Unbinding via Multivalency-Enabled Ternary Complexes: New Paradigm for Protein-DNA Interactions. <i>Accounts of Chemical Research</i> , 2018 , 51, 860-868	24.3	27

61	Cooperative communication within and between single nanocatalysts. <i>Nature Chemistry</i> , 2018 , 10, 607-614	14.6	56
60	Charge Carrier Activity on Single-Particle Photo(electro)catalysts: Toward Function in Solar Energy Conversion. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6729-6740	16.4	35
59	Imaging Catalytic Hotspots on Single Plasmonic Nanostructures via Correlated Super-Resolution and Electron Microscopy. <i>ACS Nano</i> , 2018 , 12, 5570-5579	16.7	56
58	Adaptor protein mediates dynamic pump assembly for bacterial metal efflux. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6694-6699	11.5	19
57	Single polymer growth dynamics. <i>Science</i> , 2017 , 358, 352-355	33.3	42
56	Bimetallic Effect of Single Nanocatalysts Visualized by Super-Resolution Catalysis Imaging. <i>ACS Central Science</i> , 2017 , 3, 1189-1197	16.8	47
55	Single-molecule dynamics of the molecular chaperone trigger factor in living cells. <i>Molecular Microbiology</i> , 2016 , 102, 992-1003	4.1	6
54	Distinguishing Direct and Indirect Photoelectrocatalytic Oxidation Mechanisms Using Quantitative Single-Molecule Reaction Imaging and Photocurrent Measurements. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20668-20676	3.8	37
53	Sub-particle reaction and photocurrent mapping to optimize catalyst-modified photoanodes. <i>Nature</i> , 2016 , 530, 77-80	50.4	241
52	Concentration- and chromosome-organization-dependent regulator unbinding from DNA for transcription regulation in living cells. <i>Nature Communications</i> , 2015 , 6, 7445	17.4	61
51	Strategies for enhancing the sensitivity of plasmonic nanosensors. <i>Nano Today</i> , 2015 , 10, 213-239	17.9	283
50	Metalloregulator CueR biases RNA polymerase's kinetic sampling of dead-end or open complex to repress or activate transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13467-72	11.5	21
49	Quantifying Multistate Cytoplasmic Molecular Diffusion in Bacterial Cells via Inverse Transform of Confined Displacement Distribution. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14451-9	3.4	9
48	Approaches to single-nanoparticle catalysis. <i>Annual Review of Physical Chemistry</i> , 2014 , 65, 395-422	15.7	118
47	Spatiotemporal catalytic dynamics within single nanocatalysts revealed by single-molecule microscopy. <i>Chemical Society Reviews</i> , 2014 , 43, 1107-17	58.5	110
46	Single-Molecule Kinetics Reveals a Hidden Surface Reaction Intermediate in Single-Nanoparticle Catalysis. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26902-26911	3.8	41
45	Single Turnover Measurements of Nanoparticle Catalysis Analyzed with Dwell Time Correlation Functions and Constrained Mean Dwell Times. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19074-19081	3.8	10
44	Single-molecule dynamics and mechanisms of metalloregulators and metallochaperones. <i>Biochemistry</i> , 2013 , 52, 7170-83	3.2	11

43	Single-molecule catalysis mapping quantifies site-specific activity and uncovers radial activity gradient on single 2D nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1845-52	16.4	160
42	Scalable Parallel Screening of Catalyst Activity at the Single-Particle Level and Subdiffraction Resolution. <i>ACS Catalysis</i> , 2013 , 3, 1448-1453	13.1	53
41	How does a single Pt nanocatalyst behave in two different reactions? A single-molecule study. <i>Nano Letters</i> , 2012 , 12, 1253-9	11.5	84
40	Dynamic multibody protein interactions suggest versatile pathways for copper trafficking. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8934-43	16.4	24
39	Quantitative super-resolution imaging uncovers reactivity patterns on single nanocatalysts. <i>Nature Nanotechnology</i> , 2012 , 7, 237-41	28.7	219
38	Controlled photonic manipulation of proteins and other nanomaterials. <i>Nano Letters</i> , 2012 , 12, 1633-7	11.5	142
37	Direct substitution and assisted dissociation pathways for turning off transcription by a MerR-family metalloregulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15121-6	11.5	55
36	Relating dynamic protein interactions of metallochaperones with metal transfer at the single-molecule level. <i>Faraday Discussions</i> , 2011 , 148, 71-82; discussion 97-108	3.6	17
35	Interpreting single turnover catalysis measurements with constrained mean dwell times. <i>Journal of Chemical Physics</i> , 2011 , 135, 174509	3.9	12
34	Single Molecule Fluorescence Methods in Enzymology 2010 , 751-769		1
33	Nanovesicle trapping for studying weak protein interactions by single-molecule FRET. <i>Methods in Enzymology</i> , 2010 , 472, 41-60	1.7	19
32	Size-dependent catalytic activity and dynamics of gold nanoparticles at the single-molecule level. <i>Journal of the American Chemical Society</i> , 2010 , 132, 138-46	16.4	422
31	Single-molecule fluorescence imaging of nanocatalytic processes. <i>Chemical Society Reviews</i> , 2010 , 39, 4560-70	58.5	121
30	Tackling metal regulation and transport at the single-molecule level. <i>Natural Product Reports</i> , 2010 , 27, 757-67	15.1	10
29	Single-molecule nanoscale electrocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6555-63	3.6	34
28	Single Molecule Fluorescence Methods in Enzymology 2010 , 353-367		
27	Single-molecule electrocatalysis by single-walled carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 3968-73	11.5	92
26	Single-molecule kinetics of nanoparticle catalysis. <i>Nano Research</i> , 2009 , 2, 911-922	10	39

25	Single-nanoparticle catalysis at single-turnover resolution. <i>Chemical Physics Letters</i> , 2009 , 470, 151-157	2.5	53
24	Single-molecule study of metalloregulator CueR-DNA interactions using engineered Holliday junctions. <i>Biophysical Journal</i> , 2009 , 97, 844-52	2.9	20
23	Single-Molecule Kinetic Theory of Heterogeneous and Enzyme Catalysis. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2393-2404	3.8	74
22	Probing the catalytic activity and heterogeneity of Au-nanoparticles at the single-molecule level. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2767-78	3.6	73
21	Single-molecule nanocatalysis reveals heterogeneous reaction pathways and catalytic dynamics. <i>Nature Materials</i> , 2008 , 7, 992-6	27	351
20	Probing transient copper chaperone-Wilson disease protein interactions at the single-molecule level with nanovesicle trapping. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2446-7	16.4	49
19	Single-molecule fluorescence studies from a bioinorganic perspective. <i>Inorganica Chimica Acta</i> , 2008 , 361, 809-819	2.7	11
18	Engineered holliday junctions as single-molecule reporters for protein-DNA interactions with application to a MerR-family regulator. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12461-7	16.4	19
17	Observation of individual microtubule motor steps in living cells with endocytosed quantum dots. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 24220-4	3.4	142
16	An exceptionally selective lead(II)-regulatory protein from <i>Ralstonia metallidurans</i> : development of a fluorescent lead(II) probe. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2715-2719	16.4	137
15	O ₂ activation by binuclear Cu sites: noncoupled versus exchange coupled reaction mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13105-10	11.5	141
14	N ₂ O reduction by the μ_4 -sulfide-bridged tetranuclear Cu ₂ Z cluster active site. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4132-40	16.4	97
13	Reduktion von N ₂ O an einem μ_4 -sulfidverbrückten vierkernigen aktiven Cu ₂ Z-Zentrum. <i>Angewandte Chemie</i> , 2004 , 116, 4224-4233	3.6	19
12	Oxygen activation by the noncoupled binuclear copper site in peptidylglycine alpha-hydroxylating monooxygenase. Spectroscopic definition of the resting sites and the putative Cu ₂ IM-OOH intermediate. <i>Biochemistry</i> , 2004 , 43, 5735-47	3.2	72
11	Oxygen activation by the noncoupled binuclear copper site in peptidylglycine alpha-hydroxylating monooxygenase. Reaction mechanism and role of the noncoupled nature of the active site. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4991-5000	16.4	236
10	A general strategy to convert the MerR family proteins into highly sensitive and selective fluorescent biosensors for metal ions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 728-9	16.4	263
9	Spectroscopy and bonding in side-on and end-on Cu ₂ (S ₂) cores: comparison to peroxide analogues. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6394-408	16.4	40
8	Reaction of elemental sulfur with a copper(I) complex forming a trans- μ_2 -1,2 end-on disulfide complex: new directions in copper-sulfur chemistry. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1160-1	16.4	74

7	Activation of N ₂ O reduction by the fully reduced micro ₄ -sulfide bridged tetranuclear Cu ₂ Z ₂ cluster in nitrous oxide reductase. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15708-9	16.4	91
6	Spectroscopic and electronic structure studies of the diamagnetic side-on Cu(I)-superoxo complex Cu(O ₂)[HB(3-R-5-iPrpz) ₃]: antiferromagnetic coupling versus covalent delocalization. <i>Journal of the American Chemical Society</i> , 2003 , 125, 466-74	16.4	147
5	Frontier molecular orbital analysis of Cu(n)-O(2) reactivity. <i>Journal of Inorganic Biochemistry</i> , 2002 , 88, 368-74	4.2	19
4	Spectroscopic and electronic structure studies of the μ ₄ -sulfide bridged tetranuclear Cu ₂ Z ₂ cluster in N(2)O reductase: molecular insight into the catalytic mechanism. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10497-507	16.4	83
3	Electronic structure description of the μ ₄ -sulfide bridged tetranuclear Cu ₂ Z ₂ center in N(2)O reductase. <i>Journal of the American Chemical Society</i> , 2002 , 124, 744-5	16.4	70
2	Oxygen Binding, Activation, and Reduction to Water by Copper Proteins. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 4570-4590	16.4	691
1	Spectroscopic and Theoretical Studies of Mononuclear Copper(II) Alkyl- and Hydroperoxo Complexes: Electronic Structure Contributions to Reactivity. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10177-10193	16.4	128