Joanna M Kargul

List of Publications by Year
in descending order

73 papers	2,220 citations	331259 21 h-index	223531 46 g-index
80 all docs	80 docs citations	80 times ranked	2671 citing authors

#	Article	IF	Citations
1	AUX1 regulates root gravitropism in Arabidopsis by facilitating auxin uptake within root apical tissues. EMBO Journal, 1999, 18, 2066-2073.	3.5	541
2	Structure-Function Analysis of the Presumptive Arabidopsis Auxin Permease AUX1 [W]. Plant Cell, 2004, 16, 3069-3083.	3.1	308
3	Three-dimensional Reconstruction of a Light-harvesting Complex I- Photosystem I (LHCI-PSI) Supercomplex from the Green Alga Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2003, 278, 16135-16141.	1.6	123
4	X-ray crystallography identifies two chloride binding sites in the oxygen evolving centre of Photosystem II. Energy and Environmental Science, 2008, 1, 161.	15.6	118
5	Light-harvesting complex II protein CP29 binds to photosystem I of Chlamydomonas reinhardtii under State 2 conditions. FEBS Journal, 2005, 272, 4797-4806.	2.2	113
6	Photosynthetic acclimation: Structural reorganisation of light harvesting antenna â€“ role of redoxâ€dependent phosphorylation of major and minor chlorophyll a/b binding proteins. FEBS Journal, 2008, 275, 1056-1068.	2.2	110
7	Environmentally Modulated Phosphoproteome of Photosynthetic Membranes in the Green Alga Chlamydomonas reinhardtii. Molecular and Cellular Proteomics, 2006, 5, 1412-1425.	2.5	105
8	Photosystem Iâ€based Biophotovoltaics on Nanostructured Hematite. Advanced Functional Materials, 2014, 24, 7467-7477.	7.8	70
9	Substrate water exchange in photosystem II core complexes of the extremophilic red alga Cyanidioschyzon merolae. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1257-1262.	0.5	59
10	A Reaction Center-dependent Photoprotection Mechanism in a Highly Robust Photosystem II from an Extremophilic Red Alga, Cyanidioschyzon merolae. Journal of Biological Chemistry, 2013, 288, 23529-23542.	1.6	56
11	Structure and function of photosystem I and its application in biomimetic solar-to-fuel systems. Journal of Plant Physiology, 2012, 169, 1639-1653.	1.6	55
12	Protein-binding partners of the tobacco syntaxin NtSyr1. FEBS Letters, 2001, 508, 253-258.	1.3	47
13	Energy Coupling in the PSIâ^'LHCI Supercomplex from the Green AlgaChlamydomonas reinhardtiiâ€,â€–. Journal of Physical Chemistry B, 2004, 108, 10547-10555.	1.2	39
14	Purification, crystallization and X-ray diffraction analyses of the T. elongatus PSII core dimer with strontium replacing calcium in the oxygen-evolving complex. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 404-413.	0.5	37
15	Molecular Mechanisms of Photoadaptation of Photosystem I Supercomplex from an Evolutionary Cyanobacterial/Algal Intermediate. Plant Physiology, 2018, 176, 1433-1451.	2.3	35
16	Structural Organization of Photosynthetic Apparatus in Agranal Chloroplasts of Maize. Journal of Biological Chemistry, 2008, 283, 26037-26046.	1.6	34
17	Orientation of photosystem I on graphene through cytochrome c₅₅₃ leads to improvement in photocurrent generation. Journal of Materials Chemistry A, 2018, 6, 18615-18626.	5.2	32
18	Plasmon-induced absorption of blind chlorophylls in photosynthetic proteins assembled on silver nanowires. Nanoscale, 2017, 9, 10475-10486.	2.8	30

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19	A quest for the artificial leaf. International Journal of Biochemistry and Cell Biology, 2015, 66, 37-44.	1.2	29
20	Analysis of xenon binding to photosystem II by X-ray crystallography. Photosynthesis Research, 2008, 98, 523-527.	1.6	25
21	Spectral and Kinetic Analysis of the Energy Coupling in the PS Iâ€“LHC I Supercomplex from the Green Alga Chlamydomonas reinhardtii at 77ÂK. Photosynthesis Research, 2005, 86, 203-216.	1.6	23
22	Biofunctionalisation of p-doped silicon with cytochrome c₅₅₃minimises charge recombination and enhances photovoltaic performance of the all-solid-state photosystem I-based biophotoelectrode. RSC Advances, 2017, 7, 47854-47866.	1.7	21
23	Controlling the charge transfer flow at the graphene/pyreneâ€“nitrilotriacetic acid interface. Journal of Materials Chemistry C, 2018, 6, 5046-5054.	2.7	18
24	Oxygenic photosynthesis: translation to solar fuel technologies. Acta Societatis Botanicorum Poloniae, 2014, 83, 423-440.	0.8	17
25	Epigenetics and human disease. International Journal of Biochemistry and Cell Biology, 2009, 41, 1.	1.2	12
26	Plasmonic enhancement of photocurrent generation in a photosystem I-based hybrid electrode. Journal of Materials Chemistry C, 2020, 8, 5807-5814.	2.7	12
27	Role of Metal Centers in Tuning the Electronic Properties of Graphene-Based Conductive Interfaces. Journal of Physical Chemistry C, 2019, 123, 8623-8632.	1.5	11
28	Remodeling of excitation energy transfer in extremophilic red algal PSI-LHCI complex during light adaptation. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148093.	0.5	11
29	Unequal misses during the flash-induced advancement of photosystem II: effects of the S state and acceptor side cycles. Photosynthesis Research, 2019, 139, 93-106.	1.6	10
30	Nanomedicine: Application of nanoparticles in clinical therapies and diagnostics. International Journal of Biochemistry and Cell Biology, 2016, 75, 140.	1.2	8
31	Non-coding RNAs: A novel level of genome complexity. International Journal of Biochemistry and Cell Biology, 2014, 54, 286.	1.2	7
32	Development of a Novel Nanoarchitecture of the Robust Photosystem I from a Volcanic Microalga Cyanidioschyzon merolae on Single Layer Graphene for Improved Photocurrent Generation. International Journal of Molecular Sciences, 2021, 22, 8396.	1.8	7
33	Enhancement of direct electron transfer in graphene bioelectrodes containing novel cytochrome c variants with optimized heme orientation. Bioelectrochemistry, 2021, 140, 107818.	2.4	7
34	Development of a universal conductive platform for anchoring photo- and electroactive proteins using organometallic terpyridine molecular wires. Nanoscale, 2021, 13, 9773-9787.	2.8	7
35	Structure and Function of Photosynthetic Reaction Centres. RSC Energy and Environment Series, 2011, , 107-142.	0.2	7
36	Competition between intra-protein charge recombination and electron transfer outside photosystem I complexes used for photovoltaic applications. Photochemical and Photobiological Sciences, 2022, 21, 319-336.	1.6	7

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37	Diabetes: Present and future. International Journal of Biochemistry and Cell Biology, 2017, 88, 196.	1.2	6
38	Silver Island Film for Enhancing Light Harvesting in Natural Photosynthetic Proteins. International Journal of Molecular Sciences, 2020, 21, 2451.	1.8	6
39	Small heat shock proteins: Molecular protectors against the disease. International Journal of Biochemistry and Cell Biology, 2012, 44, 1587.	1.2	5
40	Electron Transfer in a Bio-Photoelectrode Based on Photosystem I Multilayer Immobilized on the Conducting Glass. International Journal of Molecular Sciences, 2022, 23, 4774.	1.8	5
41	Diabetes: New challenges for the control of disease globalisation. International Journal of Biochemistry and Cell Biology, 2006, 38, 685-686.	1.2	4
42	Fluorescence kinetics of PSII crystals containing Ca2+ or Sr2+ in the oxygen evolving complex. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 264-269.	0.5	4
43	Photosynthetic acclimation: Molecular mechanisms of short and long-term acclimation. FEBS Journal, 2008, 275, 1055-1055.	2.2	3
44	Bioenergetic dysfunction in disease. International Journal of Biochemistry and Cell Biology, 2013, 45, 1.	1.2	3
45	Metabolomics: Taking snapshots of cellular physiology in health and disease. International Journal of Biochemistry and Cell Biology, 2017, 93, 86.	1.2	3
46	On the nature of uncoupled chlorophylls in the extremophilic photosystem I-light harvesting I supercomplex. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148136.	0.5	3
47	Molecular mechanism of direct electron transfer in the robust cytochrome-functionalised graphene nanosystem. RSC Advances, 2021, 11, 18860-18869.	1.7	3
48	Mechanisms of inflammation. International Journal of Biochemistry and Cell Biology, 2010, 42, 479-479.	1.2	2
49	MicroRNAs in development and disease. International Journal of Biochemistry and Cell Biology, 2010, 42, 1233.	1.2	2
50	Liver growth, development and diseaseâ€"New research revealing new horizons. International Journal of Biochemistry and Cell Biology, 2011, 43, 171-171.	1.2	2
51	Extra cellular matrix a modular soil for stem cells. International Journal of Biochemistry and Cell Biology, 2016, 81, 164.	1.2	2
52	Architecture and Function of Biohybrid Solar Cell and Solar-to-Fuel Nanodevices. Springer Series in Materials Science, 2020, , 227-274.	0.4	2
53	Diazonium-Based Covalent Molecular Wiring of Single-Layer Graphene Leads to Enhanced Unidirectional Photocurrent Generation through the p-doping Effect. Chemistry of Materials, 2022, 34, 3744-3758.	3.2	2
54	Muscle atrophy: From molecular pathways to clinical therapy. International Journal of Biochemistry and Cell Biology, 2013, 45, 2119.	1.2	1

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55	Cystic fibrosis: From a single gene to complex pathophysiology. International Journal of Biochemistry and Cell Biology, 2014, 52, 1.	1.2	1
56	Epigenetics regulation of disease: There is more to a gene than its sequence. International Journal of Biochemistry and Cell Biology, 2015, 67, 43.	1.2	1
57	Oxidative stress signaling: Too much of a good thing. International Journal of Biochemistry and Cell Biology, 2016, 81, 233.	1.2	1
58	Biophotovoltaic Systems Based on Photosynthetic Complexes. , 2018, , 43-63.		1
59	Compositional and Structural Analyses of the Photosystem II Isolated from the Red Alga Cyanidioschyzon Merolae. Advanced Topics in Science and Technology in China, 2013, , 59-63.	0.0	1
60	Spectral Dependence of the Energy Transfer from Photosynthetic Complexes to Monolayer Graphene. International Journal of Molecular Sciences, 2022, 23, 3493.	1.8	1
61	Improving Photostability of Photosystem I-Based Nanodevice by Plasmonic Interactions with Planar Silver Nanostructures. International Journal of Molecular Sciences, 2022, 23, 2976.	1.8	1
62	Proteases and antiproteases in immune defense, tissue homeostasis and development. International Journal of Biochemistry and Cell Biology, 2008, 40, 1065-1065.	1.2	0
63	Mitochondria matter: New concepts of dynamics and roles in pathophysiology. International Journal of Biochemistry and Cell Biology, 2009, 41, 1747.	1.2	0
64	Organelles in Focus launch. International Journal of Biochemistry and Cell Biology, 2011, 43, 459-459.	1.2	0
65	Targeting metabolic pathways for cancer therapy. International Journal of Biochemistry and Cell Biology, 2011, 43, 947.	1.2	0
66	Rare cancers: What we can learn from them. International Journal of Biochemistry and Cell Biology, 2014, 53, 459-460.	1.2	0
67	Regenerative medicine: Future impact on clinical therapies and society. International Journal of Biochemistry and Cell Biology, 2014, 56, 1.	1.2	0
68	Mitochondrial diseases: From the lab bench to therapies. International Journal of Biochemistry and Cell Biology, 2015, 63, 1.	1.2	0
69	G proteinâ€“coupled receptors (GPCRs): The more the merrier. International Journal of Biochemistry and Cell Biology, 2016, 77, 181-182.	1.2	0
70	Proteolytic degradation pathways in health and disease. International Journal of Biochemistry and Cell Biology, 2016, 79, 401.	1.2	0
71	RNA splicing: An ingenious gene self editing tool. International Journal of Biochemistry and Cell Biology, 2017, 91, 81.	1.2	0
72	Structural organization of photosynthetic apparatus in agranal chloroplasts of maize. VOLUME 283 (2008) PAGES 26037-26046. Journal of Biological Chemistry, 2008, 283, 36060.	1.6	0

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73	Insight into structure-property relationship of organometallic terpyridine wires: Combined theoretical and experimental study. Polyhedron, 2022, 213, 115628.	1.0	0