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	Insight into structure-property relationship of organometallic terpyridine wires: Combined theoretical and experimental study. Polyhedron, 2022, 213, 115628.	1.0	0
2	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
3	Spectral Dependence of the Energy Transfer from Photosynthetic Complexes to Monolayer Graphene. International Journal of Molecular Sciences, 2022, 23, 3493.	1.8	1
4	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
5	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
6	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
7	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
8	Enhancement of direct electron transfer in graphene bioelectrodes containing novel cytochrome c variants with optimized heme orientation. Bioelectrochemistry, 2021, 140, 107818.	2.4	7
9	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
10	Molecular mechanism of direct electron transfer in the robust cytochrome-functionalised graphene nanosystem. RSC Advances, 2021, 11, 18860-18869.	1.7	3
11	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
12	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
13	Plasmonic enhancement of photocurrent generation in a photosystem I-based hybrid electrode. Journal of Materials Chemistry C, 2020, 8, 5807-5814.	2.7	12
14	Silver Island Film for Enhancing Light Harvesting in Natural Photosynthetic Proteins. International Journal of Molecular Sciences, 2020, 21, 2451.	1.8	6
15	Architecture and Function of Biohybrid Solar Cell and Solar-to-Fuel Nanodevices. Springer Series in Materials Science, 2020, , 227-274.	0.4	2
16	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
17	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
18	Controlling the charge transfer flow at the graphene/pyreneâ€“nitrilotriacetic acid interface. Journal of Materials Chemistry C, 2018, 6, 5046-5054.	2.7	18

#	Article	IF	Citations
19	Molecular Mechanisms of Photoadaptation of Photosystem I Supercomplex from an Evolutionary Cyanobacterial/Algal Intermediate. Plant Physiology, 2018, 176, 1433-1451.	2.3	35
20	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
21	Biophotovoltaic Systems Based on Photosynthetic Complexes. , 2018, , 43-63.		1
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	RNA splicing: An ingenious gene self editing tool. International Journal of Biochemistry and Cell Biology, 2017, 91, 81.	1.2	0
24	Metabolomics: Taking snapshots of cellular physiology in health and disease. International Journal of Biochemistry and Cell Biology, 2017, 93, 86.	1.2	3
25	Plasmon-induced absorption of blind chlorophylls in photosynthetic proteins assembled on silver nanowires. Nanoscale, 2017, 9, 10475-10486.	2.8	30
26	Diabetes: Present and future. International Journal of Biochemistry and Cell Biology, 2017, 88, 196.	1.2	6
27	Oxidative stress signaling: Too much of a good thing. International Journal of Biochemistry and Cell Biology, 2016, 81, 233.	1.2	1
28	Extra cellular matrix a modular soil for stem cells. International Journal of Biochemistry and Cell Biology, 2016, 81, 164.	1.2	2
29	Nanomedicine: Application of nanoparticles in clinical therapies and diagnostics. International Journal of Biochemistry and Cell Biology, 2016, 75, 140.	1.2	8
30	G proteinâ€“coupled receptors (GPCRs): The more the merrier. International Journal of Biochemistry and Cell Biology, 2016, 77, 181-182.	1.2	0
31	Proteolytic degradation pathways in health and disease. International Journal of Biochemistry and Cell Biology, 2016, 79, 401.	1.2	0
32	Mitochondrial diseases: From the lab bench to therapies. International Journal of Biochemistry and Cell Biology, 2015, 63, 1.	1.2	0
33	A quest for the artificial leaf. International Journal of Biochemistry and Cell Biology, 2015, 66, 37-44.	1.2	29
34	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
35	Rare cancers: What we can learn from them. International Journal of Biochemistry and Cell Biology, 2014, 53, 459-460.	1.2	0
36	Oxygenic photosynthesis: translation to solar fuel technologies. Acta Societatis Botanicorum Poloniae, 2014, 83, 423-440.	0.8	17

#	Article	IF	Citations
37	Photosystem Iâ€based Biophotovoltaics on Nanostructured Hematite. Advanced Functional Materials, 2014, 24, 7467-7477.	7.8	70
38	Regenerative medicine: Future impact on clinical therapies and society. International Journal of Biochemistry and Cell Biology, 2014, 56, 1.	1.2	0
39	Non-coding RNAs: A novel level of genome complexity. International Journal of Biochemistry and Cell Biology, 2014, 54, 286.	1.2	7
40	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
41	Cystic fibrosis: From a single gene to complex pathophysiology. International Journal of Biochemistry and Cell Biology, 2014, 52, 1.	1.2	1
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	Muscle atrophy: From molecular pathways to clinical therapy. International Journal of Biochemistry and Cell Biology, 2013, 45, 2119.	1.2	1
44	Bioenergetic dysfunction in disease. International Journal of Biochemistry and Cell Biology, 2013, 45, 1.	1.2	3
45	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
46	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
47	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
48	Small heat shock proteins: Molecular protectors against the disease. International Journal of Biochemistry and Cell Biology, 2012, 44, 1587.	1.2	5
49	Organelles in Focus launch. International Journal of Biochemistry and Cell Biology, 2011, 43, 459-459.	1.2	0
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	Targeting metabolic pathways for cancer therapy. International Journal of Biochemistry and Cell Biology, 2011, 43, 947.	1.2	0
52	Structure and Function of Photosynthetic Reaction Centres. RSC Energy and Environment Series, 2011, , 107-142.	0.2	7
53	Mechanisms of inflammation. International Journal of Biochemistry and Cell Biology, 2010, 42, 479-479.	1.2	2
54	MicroRNAs in development and disease. International Journal of Biochemistry and Cell Biology, 2010, 42, 1233.	1.2	2

#	Article	IF	Citations
55	Epigenetics and human disease. International Journal of Biochemistry and Cell Biology, 2009, 41, 1.	1.2	12
56	Mitochondria matter: New concepts of dynamics and roles in pathophysiology. International Journal of Biochemistry and Cell Biology, 2009, 41, 1747.	1.2	0
57	Analysis of xenon binding to photosystem II by X-ray crystallography. Photosynthesis Research, 2008, 98, 523-527.	1.6	25
58	Photosynthetic acclimation: Molecular mechanisms of short and long-term acclimation. FEBS Journal, 2008, 275, 1055-1055.	2.2	3
59	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
60	Proteases and antiproteases in immune defense, tissue homeostasis and development. International Journal of Biochemistry and Cell Biology, 2008, 40, 1065-1065.	1.2	0
61	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
62	Structural Organization of Photosynthetic Apparatus in Agranal Chloroplasts of Maize. Journal of Biological Chemistry, 2008, 283, 26037-26046.	1.6	34
63	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
64	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
65	Diabetes: New challenges for the control of disease globalisation. International Journal of Biochemistry and Cell Biology, 2006, 38, 685-686.	1.2	4
66	Environmentally Modulated Phosphoproteome of Photosynthetic Membranes in the Green Alga Chlamydomonas reinhardtii. Molecular and Cellular Proteomics, 2006, 5, 1412-1425.	2.5	105
67	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
68	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
69	Structure-Function Analysis of the Presumptive Arabidopsis Auxin Permease AUX1 [W]. Plant Cell, 2004, 16, 3069-3083.	3.1	308
70	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
71	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
72	Protein-binding partners of the tobacco syntaxin NtSyr1. FEBS Letters, 2001, 508, 253-258.	1.3	47

#	Article	IF	Citations
73	AUX1 regulates root gravitropism in Arabidopsis by facilitating auxin uptake within root apical tissues. EMBO Journal, 1999, 18, 2066-2073.	3.5	541