

James Green

List of Publications by Year in descending order

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Version: 2024-02-01

132
papers

1,851
citations

361413

20
h-index

361022

35
g-index

141
all docs

141
docs citations

141
times ranked

2138
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescein isothiocyanate, a platform for the selective and sensitive detection of S-Nitrosothiols and hydrogen sulfide. <i>Talanta</i> , 2022, 237, 122981.	5.5	8
2	Alkynedicobalt mediated vinylogous Nazarov reactions. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1004-1007.	2.8	0
3	Sex differences in developmental patterns of neocortical astroglia: A mouse translome database. <i>Cell Reports</i> , 2022, 38, 110310.	6.4	33
4	GasBotty: Multi-Metric Extraction in the Wild. <i>IEEE Access</i> , 2022, 10, 28487-28498.	4.2	1
5	NICUface: Robust Neonatal Face Detection in Complex NICU Scenes. <i>IEEE Access</i> , 2022, 10, 62893-62909.	4.2	11
6	Machine Learning Study of Metabolic Networks vs ChEMBL Data of Antibacterial Compounds. <i>Molecular Pharmaceutics</i> , 2022, 19, 2151-2163.	4.6	3
7	Assessing sequence-based protein-protein interaction predictors for use in therapeutic peptide engineering. <i>Scientific Reports</i> , 2022, 12, .	3.3	1
8	Comparison of Blind Source Separation Techniques for Respiration Rate Estimation from Depth Video. , 2022, , .		3
9	Respiration Rate Estimation from Thermal Video of Masked and Unmasked Individuals Using Tensor Decomposition. , 2022, , .		4
10	Automatic 1D 1H NMR Metabolite Quantification for Bioreactor Monitoring. <i>Metabolites</i> , 2021, 11, 157.	2.9	7
11	Multi-schema computational prediction of the comprehensive SARS-CoV-2 vs. human interactome. <i>PeerJ</i> , 2021, 9, e11117.	2.0	8
12	Fusing Pressure-Sensitive Mat Data with Video through Multi-Modal Registration. , 2021, , .		3
13	Predicting Metabolic Reaction Networks with Perturbation-Theory Machine Learning (PTML) Models. <i>Current Topics in Medicinal Chemistry</i> , 2021, 21, 819-827.	2.1	10
14	To Keystone or Not to Keystone, that is the Correction. , 2021, , .		1
15	Integrating Physiological Data Artifacts Detection With Clinical Decision Support Systems: Observational Study. <i>JMIR Biomedical Engineering</i> , 2021, 6, e23495.	1.2	1
16	Chaos Game Representation of Audio Signals. , 2021, , .		1
17	TSEA: An Open Source Python-Based Annotation Tool for Time Series Data. , 2021, , .		0
18	Propargyl Radicals in Organic Synthesis. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3359-3375.	2.4	11

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19	Noncontact Neonatal Respiration Rate Estimation Using Machine Vision. , 2021, , .		11
20	Humanâ€“Soybean Allergies: Elucidation of the Seed Proteome and Comprehensive Proteinâ€“Protein Interaction Prediction. Journal of Proteome Research, 2021, 20, 4925-4947.	3.7	8
21	RGB-D scene analysis in the NICU. Computers in Biology and Medicine, 2021, 138, 104873.	7.0	5
22	Machine learning pedagogy to support the research community. , 2021, , .		4
23	Reaction of Alkynyl- and Alkenyltrifluoroborates with Propargyldicobalt Cations: Alkynylation, Alkenylation, and Cyclopropanation Product Pathways. Journal of Organic Chemistry, 2021, , .	3.2	0
24	A novel Greedy approach for Sequence based Computational prediction of Binding-Sites in Protein-Protein Interaction. , 2021, , .		0
25	Extension of the 5-alkynyluridine side chain via Câ€“C-bond formation in modified organometallic nucleosides using the Nicholas reaction. Beilstein Journal of Organic Chemistry, 2020, 16, 1-8.	2.2	5
26	Detection of Neonatal Patient Motion Using a Pressure-Sensitive Mat. , 2020, , .		4
27	Neonatal Face Tracking for Non-Contact Continuous Patient Monitoring. , 2020, , .		9
28	Proteome-wide Prediction of Lysine Methylation Leads to Identification of H2BK43 Methylation and Outlines the Potential Methyllysine Proteome. Cell Reports, 2020, 32, 107896.	6.4	17
29	RPmirDIP: Reciprocal Perspective improves miRNA targeting prediction. Scientific Reports, 2020, 10, 11770.	3.3	16
30	Using Machine Learning and Targeted Mass Spectrometry to Explore the Methyl-Lys Proteome. STAR Protocols, 2020, 1, 100135.	1.2	1
31	A computational drug repositioning method applied to rare diseases: Adrenocortical carcinoma. Scientific Reports, 2020, 10, 8846.	3.3	13
32	Whole-body vibration in neonatal transport: a review of current knowledge and future research challenges. Early Human Development, 2020, 146, 105051.	1.8	16
33	Data-Driven Audiogram Classification for Mobile Audiometry. Scientific Reports, 2020, 10, 3962.	3.3	10
34	Gas Prices of America: The Machine-Augmented Crowd-Sourcing Era. , 2020, , .		5
35	PIPE4: Fast PPI Predictor for Comprehensive Inter- and Cross-Species Interactomes. Scientific Reports, 2020, 10, 1390.	3.3	18
36	Chaos Game Representations & Deep Learning for Proteome-Wide Protein Prediction. , 2020, , .		7

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37	Multi-view Co-training for microRNA Prediction. Scientific Reports, 2019, 9, 10931.	3.3	8
38	<i>ProtDCal</i> Suite</i>: A web server for the numerical codification and functional analysis of proteins. Protein Science, 2019, 28, 1734-1743.	7.6	19
39	A semi-supervised machine learning framework for microRNA classification. Human Genomics, 2019, 13, 43.	2.9	6
40	miPIE: NGS-based Prediction of miRNA Using Integrated Evidence. Scientific Reports, 2019, 9, 1548.	3.3	13
41	Deep Learning for Critical Infrastructure Resilience. Journal of Infrastructure Systems, 2019, 25, .	1.8	50
42	Generation and Reactions of a Benzodehydrotropylium Ionâ€“Co₂(CO)₆ Complex. ACS Omega, 2019, 4, 18600-18608.	3.5	5
43	Heter-LP: A Heterogeneous Label Propagation Method for Drug Repositioning. Methods in Molecular Biology, 2019, 1903, 291-316.	0.9	1
44	Insights into the suitability of utilizing brown rats (Rattus norvegicus) as a model for healing spinal cord injury with epidermal growth factor and fibroblast growth factor-II by predicting protein-protein interactions. Computers in Biology and Medicine, 2019, 104, 220-226.	7.0	5
45	In Silico Engineering of Synthetic Binding Proteins from Random Amino Acid Sequences. IScience, 2019, 11, 375-387.	4.1	10
46	A review of network-based approaches to drug repositioning. Briefings in Bioinformatics, 2018, 19, 878-892.	6.5	216
47	Measuring Uncertainty During Respiratory Rate Estimation Using Pressure-Sensitive Mats. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1535-1542.	4.7	21
48	Active Learning for microRNA Prediction. , 2018, , .		5
49	Systematic Street View Sampling: High Quality Annotation of Power Infrastructure in Rural Ontario. , 2018, , .		6
50	CEA: Clinical Event Annotator mHealth Application for Real-time Patient Monitoring. , 2018, 2018, 2921-2924.		7
51	Applications of Machine Learning Methods in Retrospective Studies on Hearing. , 2018, , .		2
52	Segmentation of Patient Images in the Neonatal Intensive Care Unit. , 2018, , .		8
53	Neurodegenerative Disease Prediction Based on Gait Analysis Signals Acquired with Force-Sensitive Resistors. , 2018, , .		6
54	Fitting Rank Order Data in the Age of Context. , 2018, , .		0

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55	A Wearable Electronic Swim Coach for Blind Athletes. , 2018, , .		5
56	Real-time Neonatal Respiratory Rate Estimation using a Pressure-Sensitive Mat. , 2018, , .		10
57	Long-Lasting Complex Reaction Behavior in a Closed Ferroinâ€“Bromateâ€“Hydroxybenzenesulfonate System. Journal of Physical Chemistry A, 2018, 122, 8301-8307.	2.5	2
58	Mining Audiograms to Improve the Interpretability of Automated Audiometry Measurements. , 2018, , .		5
59	Measurement of Vibration Levels on Neonatal Transport Systems Using a Custom Data Logger. , 2018, , .		5
60	Reciprocal Perspective for Improved Protein-Protein Interaction Prediction. Scientific Reports, 2018, 8, 11694.	3.3	19
61	Developing a pressure sensitive mat using proximity sensors for vital sign monitoring. , 2018, , .		9
62	Eulerian Magnification of Multi-Modal RGB-D Video for Heart Rate Estimation. , 2018, , .		14
63	Computational Sequence- and NGS-Based MicroRNA Prediction. , 2018, , 381-410.		5
64	Comparing metrological properties of pressure-sensitive mats for continuous patient monitoring. , 2017, , .		8
65	Heter-LP: A heterogeneous label propagation algorithm and its application in drug repositioning. Journal of Biomedical Informatics, 2017, 68, 167-183.	4.3	25
66	Designing anti-Zika virus peptides derived from predicted human-Zika virus protein-protein interactions. Computational Biology and Chemistry, 2017, 71, 180-187.	2.3	20
67	Prediction of aquatic toxicity of benzene derivatives using molecular descriptor from atomic weighted vectors. Environmental Toxicology and Pharmacology, 2017, 56, 314-321.	4.0	11
68	Nicholas Reactions of Alkynyl- and Alkenyltrifluoroborates. Synlett, 2017, 28, 2923-2927.	1.8	10
69	Positome: A method for improving protein-protein interaction quality and prediction accuracy. , 2017, , .		8
70	Novel â€œextended sequonsâ€“ of human N-glycosylation sites improve the precision of qualitative predictions: an alignment-free study of pattern recognition using ProtDCal protein features. Amino Acids, 2017, 49, 317-325.	2.7	10
71	Complex Nonlinear Behavior in the Bromateâ€“2â€“Aminophenol Reaction. International Journal of Chemical Kinetics, 2017, 49, 21-27.	1.6	5
72	Exploring general-purpose protein features for distinguishing enzymes and non-enzymes within the twilight zone. BMC Bioinformatics, 2017, 18, 349.	2.6	10

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73	Comparing time and frequency domain estimation of neonatal respiratory rate using pressure-sensitive mats. , 2017, , .		8
74	Evolution of protein-protein interaction networks in yeast. PLoS ONE, 2017, 12, e0171920.	2.5	24
75	Comparison of sequence- and structure-based protein-protein interaction sites. , 2016, , .		5
76	Predicting novel protein-protein interactions between the HIV-1 virus and homo sapiens. , 2016, , .		6
77	Smart monitoring of fluid intake and bladder voiding using pressure sensitive mats. , 2016, 2016, 4921-4924.		11
78	Characterization of measurements from pressure sensitive mats using an anthropomorphic body model. , 2016, , .		8
79	Remote Functionalization in Nicholas Reactions of Vinylogous $\hat{\text{I}}^3$ -Carbonyl Cations. Synlett, 2016, 27, 1245-1250.	1.8	10
80	Monitoring congestive heart failure using pressure-sensitive mats. , 2016, , .		5
81	Engineering inhibitory proteins with InSiPS: the in-silico protein synthesizer. , 2015, , .		5
82	An Artifact Detection Framework for Clinical Decision Support Systems. IFMBE Proceedings, 2015, , 1393-1396.	0.3	2
83	Lewis Acid Catalyzed Synthesis of Alcolchicinoids. Synlett, 2015, 26, 2408-2412.	1.8	4
84	ProtDCal: A program to compute general-purpose-numerical descriptors for sequences and 3D-structures of proteins. BMC Bioinformatics, 2015, 16, 162.	2.6	58
85	A framework for improving microRNA prediction in non-human genomes. Nucleic Acids Research, 2015, 43, gkv698.	14.5	29
86	Efficient prediction of human protein-protein interactions at a global scale. BMC Bioinformatics, 2014, 15, 383.	2.6	32
87	Synthesis of Tenuifolin through Intramolecular Nicholas Reaction. Synlett, 2014, 25, 2467-2470.	1.8	5
88	Novel Analogue of Colchicine Induces Selective Pro-Death Autophagy and Necrosis in Human Cancer Cells. PLoS ONE, 2014, 9, e87064.	2.5	52
89	Complex Reaction Dynamics in the Cerium $\hat{\text{e}}$ Bromate $\hat{\text{e}}$ 2-Methyl-1,4-hydroquinone Photoreaction. Journal of Physical Chemistry A, 2014, 118, 9795-9800.	2.5	7
90	A physics-based scoring function for protein structural decoys: Dynamic testing on targets of CASP-ROLL. Chemical Physics Letters, 2014, 610-611, 135-140.	2.6	7

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91	Automated Biosignal Quality Analysis for Electromyography Using a One-Class Support Vector Machine. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2919-2930.	4.7	82
92	Title is missing!. Journal of Medical and Biological Engineering, 2014, 34, 461.	1.8	1
93	Title is missing!. Journal of Medical and Biological Engineering, 2014, 34, 455.	1.8	0
94	Identification of thyroid hormone receptor binding sites in developing mouse cerebellum. BMC Genomics, 2013, 14, 341.	2.8	11
95	Biosignal quality analysis of surface EMG using a correlation coefficient test for normality. , 2013, , .		12
96	Differentiating two daily activities through analysis of short ambulatory video clips. , 2013, , .		0
97	Implementation of Artifact Detection in Critical Care: A Methodological Review. IEEE Reviews in Biomedical Engineering, 2013, 6, 127-142.	18.0	77
98	Nonlinear Dynamical Behavior in the Photodecomposition of <i>N</i> -Bromo-1,4-Benzoquinone-4-Imine. Journal of Physical Chemistry A, 2013, 117, 4545-4550.	2.5	8
99	Title is missing!. Journal of Medical and Biological Engineering, 2013, 33, 380.	1.8	22
100	Alkynedicobalt Complexes in $\hat{\text{I}}^3$ -Carbonyl Cations and Cycloheptynedicobalt Complexes. Synlett, 2012, 23, 1271-1282.	1.8	18
101	Short Co-occurring Polypeptide Regions Can Predict Global Protein Interaction Maps. Scientific Reports, 2012, 2, 239.	3.3	49
102	Bicatalytic Allylationâ€“Cross-Metathesis Reactions as $\hat{\text{I}}^3$ -Carbonyl Cation Equivalents. Synlett, 2012, 23, 2371-2374.	1.8	2
103	Removal of electrocardiogram artifacts in surface electromyography using a moving average method. , 2012, , .		12
104	Detection of ADC clipping, quantization noise, and amplifier saturation in surface electromyography. , 2012, , .		15
105	Recent advances in proteinâ€“protein interaction prediction: experimental and computational methods. Expert Opinion on Drug Discovery, 2011, 6, 921-935.	5.0	26
106	Binding Site Prediction for Protein-Protein Interactions and Novel Motif Discovery using Re-occurring Polypeptide Sequences. BMC Bioinformatics, 2011, 12, 225.	2.6	38
107	CO_2 production in the bromateâ€“1,4â€“cyclohexanedione oscillatory reaction. Journal of Physical Organic Chemistry, 2011, 24, 507-512.	1.9	6
108	MP-PIPE. , 2011, , .		13

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109	CleanEMG — Power line interference estimation in sEMG using an adaptive least squares algorithm. , 2011, 2011, 7941-4.		15
110	Service oriented architecture to support real-time implementation of artifact detection in critical care monitoring. , 2011, 2011, 4925-8.		4
111	Active Learning for the Prediction of Asparagine/Aspartate Hydroxylation Sites on Proteins. , 2011, , .		1
112	Title is missing!. Journal of Medical and Biological Engineering, 2011, 31, 99.	1.8	4
113	CUDA-accelerated genetic feedforward-ANN training for data mining. Journal of Physics: Conference Series, 2010, 256, 012014.	0.4	1
114	Computational approaches toward the design of pools for the in vitro selection of complex aptamers. Rna, 2010, 16, 2252-2262.	3.5	66
115	Analysis of redundant peaks in LC-MS/MS datasets. , 2010, , .		0
116	Heart disease classification through HRV analysis using Parallel Cascade Identification and Fast Orthogonal Search. , 2010, , .		9
117	Plate analyzer - a yeast colony size measurement system. , 2010, , .		0
118	Modeling tryptic digestion on the Cell BE processor. , 2009, , .		0
119	The Synthesis of Velloziolide via Nicholas Reaction Based $\hat{\text{I}}^3$ -Carbonyl Cations. Journal of Organic Chemistry, 2009, 74, 7411-7416.	3.2	20
120	PCI-SS: MISO dynamic nonlinear protein secondary structure prediction. BMC Bioinformatics, 2009, 10, 222.	2.6	25
121	(Cycloheptyne)dicobalt Complexes in Organic Synthesis. European Journal of Organic Chemistry, 2008, 2008, 6053-6062.	2.4	35
122	Computational Methods For Predicting Proteinâ€“Protein Interactions. Advances in Biochemical Engineering/Biotechnology, 2008, 110, 247-267.	1.1	49
123	Smart Rollator Prototype. , 2008, , .		23
124	Global investigation of proteinâ€“protein interactions in yeast Saccharomyces cerevisiae using re-occurring short polypeptide sequences. Nucleic Acids Research, 2008, 36, 4286-4294.	14.5	57
125	PCI-SS: Web-based human and machine interfaces for protein secondary structure prediction. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	0
126	Yeast Features: Identifying Significant Features Shared Among Yeast Proteins for Functional Genomics. Nature Precedings, 2008, , .	0.1	0

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127	Chemical oscillations in the 4-aminophenolâ€bromate photoreaction. Chemical Physics Letters, 2007, 439, 337-341.	2.6	17
128	Nonlinear System Identification Provides Insight Into Protein Folding. , 2006, , .		2
129	On the Advantages of Multi-Input Single-Output Parallel Cascade Classifiers. Annals of Biomedical Engineering, 2006, 34, 709-716.	2.5	3
130	Recognition of Adenosine Triphosphate Binding Sites Using Parallel Cascade System Identification. Annals of Biomedical Engineering, 2003, 31, 462-470.	2.5	8
131	Parallel Cascade Recognition of Exon and Intron DNA Sequences. Annals of Biomedical Engineering, 2002, 30, 129-140.	2.5	4
132	Reactions of Organic Halides Mediated by Transition Metal Compounds. , 0, , 1275-1350.		2