

# James Green

## List of Publications by Year in descending order

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Version: 2024-02-01

132  
papers

1,851  
citations

361045

20  
h-index

360668

35  
g-index

141  
all docs

141  
docs citations

141  
times ranked

2138  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of network-based approaches to drug repositioning. <i>Briefings in Bioinformatics</i> , 2018, 19, 878-892.	3.2	216
2	Automated Biosignal Quality Analysis for Electromyography Using a One-Class Support Vector Machine. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 2919-2930.	2.4	82
3	Implementation of Artifact Detection in Critical Care: A Methodological Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2013, 6, 127-142.	13.1	77
4	Computational approaches toward the design of pools for the in vitro selection of complex aptamers. <i>Rna</i> , 2010, 16, 2252-2262.	1.6	66
5	ProtDCal: A program to compute general-purpose-numerical descriptors for sequences and 3D-structures of proteins. <i>BMC Bioinformatics</i> , 2015, 16, 162.	1.2	58
6	Global investigation of protein-protein interactions in yeast <i>Saccharomyces cerevisiae</i> using re-occurring short polypeptide sequences. <i>Nucleic Acids Research</i> , 2008, 36, 4286-4294.	6.5	57
7	Novel Analogue of Colchicine Induces Selective Pro-Death Autophagy and Necrosis in Human Cancer Cells. <i>PLoS ONE</i> , 2014, 9, e87064.	1.1	52
8	Deep Learning for Critical Infrastructure Resilience. <i>Journal of Infrastructure Systems</i> , 2019, 25, .	1.0	50
9	Computational Methods For Predicting Protein-Protein Interactions. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2008, 110, 247-267.	0.6	49
10	Short Co-occurring Polypeptide Regions Can Predict Global Protein Interaction Maps. <i>Scientific Reports</i> , 2012, 2, 239.	1.6	49
11	Binding Site Prediction for Protein-Protein Interactions and Novel Motif Discovery using Re-occurring Polypeptide Sequences. <i>BMC Bioinformatics</i> , 2011, 12, 225.	1.2	38
12	(Cycloheptyne)dicobalt Complexes in Organic Synthesis. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 6053-6062.	1.2	35
13	Sex differences in developmental patterns of neocortical astroglia: A mouse translome database. <i>Cell Reports</i> , 2022, 38, 110310.	2.9	33
14	Efficient prediction of human protein-protein interactions at a global scale. <i>BMC Bioinformatics</i> , 2014, 15, 383.	1.2	32
15	A framework for improving microRNA prediction in non-human genomes. <i>Nucleic Acids Research</i> , 2015, 43, gkv698.	6.5	29
16	Recent advances in protein-protein interaction prediction: experimental and computational methods. <i>Expert Opinion on Drug Discovery</i> , 2011, 6, 921-935.	2.5	26
17	PCI-SS: MISO dynamic nonlinear protein secondary structure prediction. <i>BMC Bioinformatics</i> , 2009, 10, 222.	1.2	25
18	Heter-LP: A heterogeneous label propagation algorithm and its application in drug repositioning. <i>Journal of Biomedical Informatics</i> , 2017, 68, 167-183.	2.5	25

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19	Evolution of protein-protein interaction networks in yeast. <i>PLoS ONE</i> , 2017, 12, e0171920.	1.1	24
20	Smart Rollator Prototype. , 2008, , .		23
21	Title is missing!. <i>Journal of Medical and Biological Engineering</i> , 2013, 33, 380.	1.0	22
22	Measuring Uncertainty During Respiratory Rate Estimation Using Pressure-Sensitive Mats. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 1535-1542.	2.4	21
23	The Synthesis of Velloziolide via Nicholas Reaction Based $\hat{\text{I}}^3$ -Carbonyl Cations. <i>Journal of Organic Chemistry</i> , 2009, 74, 7411-7416.	1.7	20
24	Designing anti-Zika virus peptides derived from predicted human-Zika virus protein-protein interactions. <i>Computational Biology and Chemistry</i> , 2017, 71, 180-187.	1.1	20
25	Reciprocal Perspective for Improved Protein-Protein Interaction Prediction. <i>Scientific Reports</i> , 2018, 8, 11694.	1.6	19
26	<i>ProtDCalâ€‘Suite</i>: A web server for the numerical codification and functional analysis of proteins. <i>Protein Science</i> , 2019, 28, 1734-1743.	3.1	19
27	Alkyndicobalt Complexes in $\hat{\text{I}}^3$ -Carbonyl Cations and Cycloheptynedicobalt Complexes. <i>Synlett</i> , 2012, 23, 1271-1282.	1.0	18
28	PIPE4: Fast PPI Predictor for Comprehensive Inter- and Cross-Species Interactomes. <i>Scientific Reports</i> , 2020, 10, 1390.	1.6	18
29	Chemical oscillations in the 4-aminophenolâ€‘bromate photoreaction. <i>Chemical Physics Letters</i> , 2007, 439, 337-341.	1.2	17
30	Proteome-wide Prediction of Lysine Methylation Leads to Identification of H2BK43 Methylation and Outlines the Potential Methyllysine Proteome. <i>Cell Reports</i> , 2020, 32, 107896.	2.9	17
31	RPmirDIP: Reciprocal Perspective improves miRNA targeting prediction. <i>Scientific Reports</i> , 2020, 10, 11770.	1.6	16
32	Whole-body vibration in neonatal transport: a review of current knowledge and future research challenges. <i>Early Human Development</i> , 2020, 146, 105051.	0.8	16
33	CleanEMG &#x2014; Power line interference estimation in sEMG using an adaptive least squares algorithm. , 2011, 2011, 7941-4.		15
34	Detection of ADC clipping, quantization noise, and amplifier saturation in surface electromyography. , 2012, , .		15
35	Eulerian Magnification of Multi-Modal RGB-D Video for Heart Rate Estimation. , 2018, , .		14
36	MP-PIPE. , 2011, , .		13

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37	miPIE: NGS-based Prediction of miRNA Using Integrated Evidence. Scientific Reports, 2019, 9, 1548.	1.6	13
38	A computational drug repositioning method applied to rare diseases: Adrenocortical carcinoma. Scientific Reports, 2020, 10, 8846.	1.6	13
39	Removal of electrocardiogram artifacts in surface electromyography using a moving average method. , 2012, , .		12
40	Biosignal quality analysis of surface EMG using a correlation coefficient test for normality. , 2013, , .		12
41	Identification of thyroid hormone receptor binding sites in developing mouse cerebellum. BMC Genomics, 2013, 14, 341.	1.2	11
42	Smart monitoring of fluid intake and bladder voiding using pressure sensitive mats. , 2016, 2016, 4921-4924.		11
43	Prediction of aquatic toxicity of benzene derivatives using molecular descriptor from atomic weighted vectors. Environmental Toxicology and Pharmacology, 2017, 56, 314-321.	2.0	11
44	Propargyl Radicals in Organic Synthesis. European Journal of Organic Chemistry, 2021, 2021, 3359-3375.	1.2	11
45	Noncontact Neonatal Respiration Rate Estimation Using Machine Vision. , 2021, , .		11
46	NICUface: Robust Neonatal Face Detection in Complex NICU Scenes. IEEE Access, 2022, 10, 62893-62909.	2.6	11
47	Remote Functionalization in Nicholas Reactions of Vinyllogous $\hat{I}^3$ -Carbonyl Cations. Synlett, 2016, 27, 1245-1250.	1.0	10
48	Nicholas Reactions of Alkynyl- and Alkenyltrifluoroborates. Synlett, 2017, 28, 2923-2927.	1.0	10
49	Novel "extended sequons" 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.	1.2	10
50	Exploring general-purpose protein features for distinguishing enzymes and non-enzymes within the twilight zone. BMC Bioinformatics, 2017, 18, 349.	1.2	10
51	Real-time Neonatal Respiratory Rate Estimation using a Pressure-Sensitive Mat. , 2018, , .		10
52	In Silico Engineering of Synthetic Binding Proteins from Random Amino Acid Sequences. IScience, 2019, 11, 375-387.	1.9	10
53	Data-Driven Audiogram Classification for Mobile Audiometry. Scientific Reports, 2020, 10, 3962.	1.6	10
54	Predicting Metabolic Reaction Networks with Perturbation-Theory Machine Learning (PTML) Models. Current Topics in Medicinal Chemistry, 2021, 21, 819-827.	1.0	10

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55	Heart disease classification through HRV analysis using Parallel Cascade Identification and Fast Orthogonal Search. , 2010, , .		9
56	Developing a pressure sensitive mat using proximity sensors for vital sign monitoring. , 2018, , .		9
57	Neonatal Face Tracking for Non-Contact Continuous Patient Monitoring. , 2020, , .		9
58	Recognition of Adenosine Triphosphate Binding Sites Using Parallel Cascade System Identification. Annals of Biomedical Engineering, 2003, 31, 462-470.	1.3	8
59	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.	1.1	8
60	Characterization of measurements from pressure sensitive mats using an anthropomorphic body model. , 2016, , .		8
61	Comparing metrological properties of pressure-sensitive mats for continuous patient monitoring. , 2017, , .		8
62	Positome: A method for improving protein-protein interaction quality and prediction accuracy. , 2017, , .		8
63	Comparing time and frequency domain estimation of neonatal respiratory rate using pressure-sensitive mats. , 2017, , .		8
64	Segmentation of Patient Images in the Neonatal Intensive Care Unit. , 2018, , .		8
65	Multi-view Co-training for microRNA Prediction. Scientific Reports, 2019, 9, 10931.	1.6	8
66	Multi-schema computational prediction of the comprehensive SARS-CoV-2 vs. human interactome. PeerJ, 2021, 9, e111117.	0.9	8
67	Humanâ€“Soybean Allergies: Elucidation of the Seed Proteome and Comprehensive Proteinâ€“Protein Interaction Prediction. Journal of Proteome Research, 2021, 20, 4925-4947.	1.8	8
68	Fluorescein isothiocyanate, a platform for the selective and sensitive detection of S-Nitrosothiols and hydrogen sulfide. Talanta, 2022, 237, 122981.	2.9	8
69	Complex Reaction Dynamics in the Ceriumâ€“Bromateâ€“2-Methyl-1,4-hydroquinone Photoreaction. Journal of Physical Chemistry A, 2014, 118, 9795-9800.	1.1	7
70	A physics-based scoring function for protein structural decoys: Dynamic testing on targets of CASP-ROLL. Chemical Physics Letters, 2014, 610-611, 135-140.	1.2	7
71	CEA: Clinical Event Annotator mHealth Application for Real-time Patient Monitoring. , 2018, 2018, 2921-2924.		7
72	Automatic 1D 1H NMR Metabolite Quantification for Bioreactor Monitoring. Metabolites, 2021, 11, 157.	1.3	7

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73	Chaos Game Representations & Deep Learning for Proteome-Wide Protein Prediction. , 2020, , .		7
74	CO <sub>2</sub> production in the bromate-cyclohexanedione oscillatory reaction. Journal of Physical Organic Chemistry, 2011, 24, 507-512.	0.9	6
75	Predicting novel protein-protein interactions between the HIV-1 virus and homo sapiens. , 2016, , .		6
76	Systematic Street View Sampling: High Quality Annotation of Power Infrastructure in Rural Ontario. , 2018, , .		6
77	Neurodegenerative Disease Prediction Based on Gait Analysis Signals Acquired with Force-Sensitive Resistors. , 2018, , .		6
78	A semi-supervised machine learning framework for microRNA classification. Human Genomics, 2019, 13, 43.	1.4	6
79	Synthesis of Tenuifolin through Intramolecular Nicholas Reaction. Synlett, 2014, 25, 2467-2470.	1.0	5
80	Engineering inhibitory proteins with InSiPS: the in-silico protein synthesizer. , 2015, , .		5
81	Comparison of sequence- and structure-based protein-protein interaction sites. , 2016, , .		5
82	Monitoring congestive heart failure using pressure-sensitive mats. , 2016, , .		5
83	Complex Nonlinear Behavior in the Bromate-Aminophenol Reaction. International Journal of Chemical Kinetics, 2017, 49, 21-27.	1.0	5
84	Active Learning for microRNA Prediction. , 2018, , .		5
85	A Wearable Electronic Swim Coach for Blind Athletes. , 2018, , .		5
86	Mining Audiograms to Improve the Interpretability of Automated Audiometry Measurements. , 2018, , .		5
87	Measurement of Vibration Levels on Neonatal Transport Systems Using a Custom Data Logger. , 2018, , .		5
88	Generation and Reactions of a Benzodehydrotropylum Ion-Co <sub>2</sub> (CO) <sub>6</sub> Complex. ACS Omega, 2019, 4, 18600-18608.	1.6	5
89	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.	3.9	5
90	Extension of the 5-alkynyluridine side chain via C-C bond formation in modified organometallic nucleosides using the Nicholas reaction. Beilstein Journal of Organic Chemistry, 2020, 16, 1-8.	1.3	5

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91	Gas Prices of America: The Machine-Augmented Crowd-Sourcing Era. , 2020, , .		5
92	RGB-D scene analysis in the NICU. Computers in Biology and Medicine, 2021, 138, 104873.	3.9	5
93	Computational Sequence- and NGS-Based MicroRNA Prediction. , 2018, , 381-410.		5
94	Parallel Cascade Recognition of Exon and Intron DNA Sequences. Annals of Biomedical Engineering, 2002, 30, 129-140.	1.3	4
95	Service oriented architecture to support real-time implementation of artifact detection in critical care monitoring. , 2011, 2011, 4925-8.		4
96	Lewis Acid Catalyzed Synthesis of Allocolchicinoids. Synlett, 2015, 26, 2408-2412.	1.0	4
97	Detection of Neonatal Patient Motion Using a Pressure-Sensitive Mat. , 2020, , .		4
98	Machine learning pedagogy to support the research community. , 2021, , .		4
99	Title is missing!. Journal of Medical and Biological Engineering, 2011, 31, 99.	1.0	4
100	Respiration Rate Estimation from Thermal Video of Masked and Unmasked Individuals Using Tensor Decomposition. , 2022, , .		4
101	On the Advantages of Multi-Input Single-Output Parallel Cascade Classifiers. Annals of Biomedical Engineering, 2006, 34, 709-716.	1.3	3
102	Fusing Pressure-Sensitive Mat Data with Video through Multi-Modal Registration. , 2021, , .		3
103	Machine Learning Study of Metabolic Networks<i>vs</i>ChEMBL Data of Antibacterial Compounds. Molecular Pharmaceutics, 2022, 19, 2151-2163.	2.3	3
104	Comparison of Blind Source Separation Techniques for Respiration Rate Estimation from Depth Video. , 2022, , .		3
105	Reactions of Organic Halides Mediated by Transition Metal Compounds. , 0, , 1275-1350.		2
106	Nonlinear System Identification Provides Insight Into Protein Folding. , 2006, , .		2
107	Bicatalytic Allylation&across-Metathesis Reactions as $\hat{I}^3$ -Carbonyl Cation Equivalents. Synlett, 2012, 23, 2371-2374.	1.0	2
108	An Artifact Detection Framework for Clinical Decision Support Systems. IFMBE Proceedings, 2015, , 1393-1396.	0.2	2

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109	Applications of Machine Learning Methods in Retrospective Studies on Hearing. , 2018, , .		2
110	Long-Lasting Complex Reaction Behavior in a Closed Ferrioinâ€“Bromateâ€“Hydroxybenzenesulfonate System. Journal of Physical Chemistry A, 2018, 122, 8301-8307.	1.1	2
111	CUDA-accelerated genetic feedforward-ANN training for data mining. Journal of Physics: Conference Series, 2010, 256, 012014.	0.3	1
112	Heter-LP: A Heterogeneous Label Propagation Method for Drug Repositioning. Methods in Molecular Biology, 2019, 1903, 291-316.	0.4	1
113	Using Machine Learning and Targeted Mass Spectrometry to Explore the Methyl-Lys Proteome. STAR Protocols, 2020, 1, 100135.	0.5	1
114	To Keystone or Not to Keystone, that is the Correction. , 2021, , .		1
115	Integrating Physiological Data Artifacts Detection With Clinical Decision Support Systems: Observational Study. JMIR Biomedical Engineering, 2021, 6, e23495.	0.7	1
116	Chaos Game Representation of Audio Signals. , 2021, , .		1
117	Active Learning for the Prediction of Asparagine/Aspartate Hydroxylation Sites on Proteins. , 2011, , .		1
118	Title is missing!. Journal of Medical and Biological Engineering, 2014, 34, 461.	1.0	1
119	GasBotty: Multi-Metric Extraction in the Wild. IEEE Access, 2022, 10, 28487-28498.	2.6	1
120	Assessing sequence-based proteinâ€“protein interaction predictors for use in therapeutic peptide engineering. Scientific Reports, 2022, 12, .	1.6	1
121	PCI-SS: Web-based human and machine interfaces for protein secondary structure prediction. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	0
122	Yeast Features: Identifying Significant Features Shared Among Yeast Proteins for Functional Genomics. Nature Precedings, 2008, , .	0.1	0
123	Modeling tryptic digestion on the Cell BE processor. , 2009, , .		0
124	Analysis of redundant peaks in LC-MS/MS datasets. , 2010, , .		0
125	Plate analyzer - a yeast colony size measurement system. , 2010, , .		0
126	Differentiating two daily activities through analysis of short ambulatory video clips. , 2013, , .		0



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127	Fitting Rank Order Data in the Age of Context. , 2018, , .		0
128	TSEA: An Open Source Python-Based Annotation Tool for Time Series Data. , 2021, , .		0
129	Title is missing!. Journal of Medical and Biological Engineering, 2014, 34, 455.	1.0	0
130	Reaction of Alkynyl- and Alkenyltrifluoroborates with Propargyldicobalt Cations: Alkynylation, Alkenylation, and Cyclopropanation Product Pathways. Journal of Organic Chemistry, 2021, , .	1.7	0
131	A novel Greedy approach for Sequence based Computational prediction of Binding-Sites in Protein-Protein Interaction. , 2021, , .		0
132	Alkyndicobalt mediated vinylogous Nazarov reactions. Organic and Biomolecular Chemistry, 2022, 20, 1004-1007.	1.5	0