Peter R Bergethon

List of Publications by Year in descending order

97 papers	1,336 citations	471509 17 h-index	477307 29 g-index
167 all docs	167 docs citations	167 times ranked	1636 citing authors

#	Article	IF	Citations
1	PROGRESSION OF VENTRICULAR WALL THICKENING AFTER LIVER TRANSPLANTATION FOR FAMILIAL AMYLOIDOSIS1. Transplantation, 1997, 64, 74-80.	1.0	165
2	A novel threeâ€dimensional tool for teaching human neuroanatomy. Anatomical Sciences Education, 2010, 3, 309-317.	3.7	149
3	Reversible Posterior Leukoencephalopathy Syndrome After Bevacizumab/FOLFIRI Regimen for Metastatic Colon Cancer. Archives of Neurology, 2006, 63, 1475.	4.5	142
4	EFFECT OF ORTHOTOPIC LIVER TRANSPLANTATION ON THE PROGRESSION OF FAMILIAL AMYLOIDOTIC POLYNEUROPATHY. Transplantation, 1998, 65, 918-925.	1.0	117
5	Diffusion Tensor Imaging, White Matter Lesions, the Corpus Callosum, and Gait in the Elderly. Stroke, 2009, 40, 3816-3820.	2.0	95
6	Phase-amplitude investigation of spontaneous low-frequency oscillations of cerebral hemodynamics with near-infrared spectroscopy: A sleep study in human subjects. NeuroImage, 2012, 63, 1571-1584.	4.2	92
7	The Nutrition, Aging, and Memory in Elders (NAME) study: design and methods for a study of micronutrients and cognitive function in a homebound elderly population. International Journal of Geriatric Psychiatry, 2006, 21, 519-528.	2.7	66
8	Low-Frequency Spontaneous Oscillations of Cerebral Hemodynamics Investigated With Near-Infrared Spectroscopy: A Review. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1478-1492.	2.9	66
9	Depression is associated with low plasma AÎ²42 independently of cardiovascular disease in the homebound elderly. International Journal of Geriatric Psychiatry, 2007, 22, 536-542.	2.7	52
10	An improved method for mapping cerebrovascular reserve using concurrent fMRI and near-infrared spectroscopy with Regressor Interpolation at Progressive Time Delays (RIPTiDe). NeuroImage, 2011, 56, 2047-2057.	4.2	44
11	A Photodependent Switch of Liposome Stability and Permeability. Langmuir, 2013, 29, 1490-1497.	3.5	41
12	The Physical Basis of Biochemistry. , 1998, , .		40
13	A synthetic dural prosthesis constructed from hydroxyethylmethacrylate hydrogels. Journal of Neurosurgery, 1995, 83, 897-902.	1.6	30
14	Clinical Prediction of Fall Risk and White Matter Abnormalities. Archives of Neurology, 2012, 69, 733-8.	4.5	28
15	Electric fields caused by blood flow modulate vascular endothelial electrophysiology and nitric oxide production. Bioelectromagnetics, 2013, 34, 22-30.	1.6	28
16	Oxidation of peptidyl lysine by copper complexes of pyrroloquinoline quinone and other quinones. A model for oxidative pathochemistry. BBA - Proteins and Proteomics, 1992, 1159, 311-318.	2.1	24
17	Amperometric electrochemical detection of pyrroloquinoline quinone in high-performance liquid chromatography. Analytical Biochemistry, 1990, 186, 324-327.	2.4	23
18	Transcobalamin 776Câ†'G polymorphism is associated with peripheral neuropathy in elderly individuals with high folate intake. American Journal of Clinical Nutrition, 2016, 104, 1665-1670.	4.7	17

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19	The relationship between plasma amyloid-Î² peptides and the medial temporal lobe in the homebound elderly. International Journal of Geriatric Psychiatry, 2011, 26, 593-601.	2.7	11
20	Fast optical signals in the peripheral nervous system. Journal of Biomedical Optics, 2006, 11, 044014.	2.6	9
21	Spectral and spatial dependence ofâ€¨diffuse optical signals in response toâ€¨peripheral nerve stimulation. Biomedical Optics Express, 2010, 1, 923.	2.9	8
22	The Physical Basis of Biochemistry. , 2010, , .		7
23	PHASE DIFFERENCE BETWEEN LOW-FREQUENCY OSCILLATIONS OF CEREBRAL DEOXY- AND OXY-HEMOGLOBIN CONCENTRATIONS DURING A MENTAL TASK. Journal of Innovative Optical Health Sciences, 2011, 04, 151-158.	1.0	7
24	Association between linear measurements of corpus callosum and gait in the elderly. European Radiology, 2013, 23, 2252-2257.	4.5	6
25	Diffuse optical signals in response to peripheral nerve stimulation reflect skeletal muscle kinematics. Biomedical Optics Express, 2010, 1, 943.	2.9	5
26	Environment Reaction Fields for Lipophilic Fluorophores using Solvatochromic Shifts. Biophysical Journal, 2013, 104, 83a.	0.5	5
27	Facticious Ventricular Tachycardia. Annals of Internal Medicine, 1987, 107, 593.	3.9	5
28	The P300 and Vascular Dementia: Not Quite Ready for Prime Time. Journal of the American Geriatrics Society, 1995, 43, 1311-1313.	2.6	3
29	Near-infrared signals associated with electrical stimulation of peripheral nerves. , 2009, 7174, .		3
30	The Association Between Small Vessel Infarcts and the Activities of Amyloid-Î² Peptide Degrading Proteases in Apolipoprotein E4 AlleleCarriers. Angiology, 2013, 64, 614-620.	1.8	3
31	Reaction Field Analysis and Lipid Bilayer Location for Lipophilic Fluorophores. Journal of Physical Chemistry B, 2013, 117, 10193-10202.	2.6	3
32	Fast optical response to electrical activation in peripheral nerves. , 2007, , .		2
33	PRACTICE ISSUES IN NEUROLOGY. CONTINUUM Lifelong Learning in Neurology, 2008, 14, 158-168.	0.8	1
34	Flow in a Chemical Potential Field: Diffusion. , 2010, , 611-623.		1
35	Molecular Structure from Scattering Phenomena. , 2010, , 815-836.		1
36	Overview of the Biological System Under Study. , 2010, , 23-55.		1

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37	Relative phase of oscillations of cerebral oxy-hemoglobin and deoxy-hemoglobin concentrations during sleep. , 2012, , .		1
38	Molecules, Membranes, and Modeling. , 1990, , 3-8.		1
39	Multiple-Component Systems. , 1990, , 59-71.		1
40	Spectroscopy: Analysis of Structure. , 1998, , 249-267.		1
41	Review of theSciProteinMolecular Modeling Program1. Journal of Chemical Information and Computer Sciences, 1997, 37, 1196-1197.	2.8	0
42	Constructing a Biological State Space. , 1998, , 346-360.		0
43	Analysis of the Optical Signals Associated with the Electrical Stimulation of Peripheral Nerves. , 2008, , .		0
44	The Electrified Interphase. , 2010, , 583-601.		0
45	Kinetics â€“ Chemical Kinetics. , 2010, , 669-712.		0
46	Physical Constants. , 2010, , 859-859.		0
47	Philosophy and Practice of Biophysical Study. , 2010, , 5-22.		0
48	Energy and Force â€“ The Prime Observables. , 2010, , 109-123.		0
49	Water: A Unique Solvent and Vital Component of Life. , 2010, , 389-408.		0
50	Ionâ€“Solvent Interactions. , 2010, , 409-439.		0
51	Ionâ€“Ion Interactions. , 2010, , 441-459.		0
52	Macromolecules in Solution. , 2010, , 485-552.		0
53	Transport â€“ A Non-equilibrium Process. , 2010, , 605-610.		0
54	Interoperability for First Responders and Emergency Management: Definition, Need, and the Path Forward. World Medical and Health Policy, 2010, 2, 156-161.	1.6	0

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55	Flow in a Chemical Potential Field: Diffusion. , 2011, , 89-90.		0
56	Electrical stimulation of peripheral nerves induces optical responses via skeletal muscle kinematics. , 2011, 7896, .		0
57	Mapping cerebrovascular reactivity using concurrent fMRI and near infrared spectroscopy. Proceedings of SPIE, 2011, , .	0.8	0
58	Continuous exposure to low amplitude extremely low frequency electrical fields characterizing the vascular streaming potential alters elastin accumulation in vascular smooth muscle cells. Bioelectromagnetics, 2013, 34, 358-365.	1.6	0
59	In Vivo Applications of Diffuse Optical Imaging and Spectroscopy. , 2006, , .		0
60	Non-invasive Optical Response to Electrical Stimulation in Peripheral Nerves. , 2006, , .		0
61	The Neurophysical Chemistry of Autism: Postulates from Intelligence Modeling. , 2010, , 217-243.		0
62	Spatial and Spectral Features of Optical Response to Peripheral Nerve Stimulation Suggest Vascular Origin. , 2010, , .		0
63	Phase relationship between the low-frequency oscillatory components of cerebral [HbO] and [Hb] assessed by NIRS during sleep in human subjects. , 2012, , .		0
64	The use of gaze tracking to quantify learning. FASEB Journal, 2012, 26, 204.4.	0.5	0
65	Ion-Ion Interactions. , 1990, , 152-170.		0
66	Engineering the Cell: A Modeling Approach to Biological Problem Solving. , 1990, , 92-96.		0
67	The Electrified Interface. , 1990, , 258-270.		0
68	Thermodynamics: An Introductory Glance. , 1990, , 11-22.		0
69	Irreversible Thermodynamics. , 1990, , 219-224.		0
70	Introduction to Electrolytic Solutions. , 1990, , 109-121.		0
71	Flow in a Chemical Potential Field: Diffusion. , 1990, , 225-234.		0
72	Molecules in Solution. , 1990, , 171-180.		0

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73	Flow in an Electric Field: Conduction. , 1990, , 235-257.		0
74	Physical Principles: Energyâ€"The Prime Observable. , 1998, , 43-47.		0
75	Chemical Principles. , 1998, , 158-172.		0
76	The Electrified Interface. , 1998, , 415-426.		0
77	Water: A Unique Structure, a Unique Solvent. , 1998, , 287-299.		0
78	Lipids in Aqueous Solution: The Formation of the Cell Membrane. , 1998, , 330-345.		0
79	Physical Principles: Electromagnetics. , 1998, , 109-124.		0
80	Which Way Is That System Going? The Gibbs Free Energy. , 1998, , 208-227.		0
81	Physical Principles: Quantum Mechanics. , 1998, , 125-157.		0
82	Flow in an Electric Field: Conduction. , 1998, , 455-469.		0
83	Macromolecules in Solution. , 1998, , 361-393.		0
84	Physical Principles: Mechanics and Motion. , 1998, , 48-67.		0
85	Friends and Neighborsâ€"Interactions in a System: Phase Equilibria. , 1998, , 228-248.		0
86	Kinetics: Enzymes and Electrons. , 1998, , 498-515.		0
87	Electrokinetic Phenomena. , 1998, , 470-479.		0
88	Ion-Solvent Interactions. , 1998, , 300-318.		0
89	Transport: A Nonequilibrium Process. , 1998, , 441-444.		0
90	Physical Thoughts, Biological Systems: The Application of Modeling Principles to Understanding Biological Systems. , 1998, , 8-26.		0

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91	The Whole Is Greater than the Sum of Its Parts: Entropy and the Second Law. , 1998, , 187-207.		0
92	Ion-Ion Interactions. , 1998, , 319-329.		0
93	Molecular Modeling: Mapping Biochemical State Space. , 1998, , 394-414.		0
94	Measuring the Energy of a System: Energetics and the First Law of Thermodynamics. , 1998, , 175-186.		0
95	Physical Principles: Electrostatics. , 1998, , 97-108.		0
96	Forces across Membranes. , 1998, , 427-438.		0
97	Advancing the Neuroscience of Learning. FASEB Journal, 2015, 29, 80.1.	0.5	0