Mikhail Berezin

List of Publications by Year
in descending order

70	4,645	136950 32	114465 63
papers	citations	h-index	g-index

72	72	72	7527
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyaluronan-Conjugated Carbon Quantum Dots for Bioimaging Use. ACS Applied Materials & Interfaces, 2021, 13, 277-286.	8.0	64
2	HSKL: A Machine Learning Framework for Hyperspectral Image Analysis. , 2021, , .		1
3	Detection of Cold Stress in Plants using Fluorescence Lifetime Imaging (FLIM). Current Analytical Chemistry, 2021, 17, 317-327.	1.2	2
4	Idcube Lite â€“ A Free Interactive Discovery Cube Software for Multi And Hyperspectral Applications. , 2021, , .		0
5	Label-Free Macroscopic Fluorescence Lifetime Imaging of Brain Tumors. Frontiers in Oncology, 2021, 11, 666059.	2.8	23
6	IDCube Lite: Free Interactive Discovery Cube software for multi and hyperspectral applications. Journal of Spectral Imaging, 2021, 10, .	0.0	1
7	Using Xenopus oocytes in neurological disease drug discovery. Expert Opinion on Drug Discovery, 2020, 15, 39-52.	5.0	17
8	Fluorescence lifetime imaging reveals heterogeneous functional distribution of eGFP expressed in Xenopus oocytes. Methods and Applications in Fluorescence, 2020, 8, 015001.	2.3	2
9	Antibody Conjugate Assembly on Ultrasound-Confined Microcarrier Particles. ACS Biomaterials Science and Engineering, 2020, 6, 6108-6116.	5.2	6
10	New in vitro highly cytotoxic platinum and palladium cyanoximates with minimal side effects in vivo. Journal of Inorganic Biochemistry, 2020, 208, 111082.	3.5	5
11	Hyperspectral imaging and characterization of allergic contact dermatitis in the shortâ€wave infrared. Journal of Biophotonics, 2020, 13, e202000040.	2.3	8
12	Imaging in the repair of peripheral nerve injury. Nanomedicine, 2019, 14, 2659-2677.	3.3	19
13	Design, modeling, and experimental validation of an acoustofluidic platform for nanoscale molecular synthesis and detection. Physics of Fluids, 2019, 31, 082007.	4.0	11
14	Detecting inflammatory responses in live animal models with near-infrared ROS probes. , 2019, , .		0
15	10.1063/1.5100149.1. , 2019, , .		0
16	ZnO1â^'x/carbon dots composite hollow spheres: Facile aerosol synthesis and superior CO2 photoreduction under UV, visible and near-infrared irradiation. Applied Catalysis B: Environmental, 2018, 230, 36-48.	20.2	62
17	Perfusionâ€based fluorescence imaging method delineates diverse organs and identifies multifocal tumors using generic nearâ€infrared molecular probes. Journal of Biophotonics, 2018, 11, e201700232.	2.3	6
18	Augmented longitudinal acoustic trap for scalable microparticle enrichment. Biomicrofluidics, 2018, 12, 034110.	2.4	8

#	Article	IF	Citations
19	Optimizing the Synthesis of Red-Emissive Nitrogen-Doped Carbon Dots for Use in Bioimaging. ACS Applied Nano Materials, 2018, 1, 3682-3692.	5.0	80
20	Cell-free measurements of brightness of fluorescently labeled antibodies. Scientific Reports, 2017, 7, 41819.	3.3	3
21	Synthesis and plant growth inhibitory activity of N-trans-cinnamoyltyramine: its possible inhibition mechanisms and biosynthesis pathway. Journal of Plant Interactions, 2017, 12, 51-57.	2.1	6
22	Shortwave infrared luminescent Pt-nanowires: a mechanistic study of emission in solution and in the solid state. Dalton Transactions, 2017, 46, 13562-13581.	3.3	16
23	Shortwave-infrared (SWIR) emitters for biological imaging: a review of challenges and opportunities. Nanophotonics, 2017, 6, 1043-1054.	6.0	116
24	Fluorescence lifetime imaging ophthalmoscopy. Progress in Retinal and Eye Research, 2017, 60, 120-143.	15.5	161
25	Penetration depth of photons in biological tissues from hyperspectral imaging in shortwave infrared in transmission and reflection geometries. Journal of Biomedical Optics, 2016, 21, 126006.	2.6	108
26	Nanothermometry: From Microscopy to Thermal Treatments. ChemPhysChem, 2016, 17, 27-36.	2.1	70
27	Temperature-dependent shape-responsive fluorescent nanospheres for image-guided drug delivery. Journal of Materials Chemistry C, 2016, 4, 3028-3035.	5.5	8
28	Imaging of radicals following injury or acute stress in peripheral nerves with activatable fluorescent probes. Free Radical Biology and Medicine, 2016, 101, 85-92.	2.9	9
29	InÂvivo fate tracking of degradable nanoparticles for lung gene transfer using PET and Äˆerenkov imaging. Biomaterials, 2016, 98, 53-63.	11.4	36
30	Visualization of pulmonary clearance mechanisms via noninvasive optical imaging validated by nearâ€infrared flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 419-427.	1.5	4
31	Highly sensitive image-derived indices of water-stressed plants using hyperspectral imaging in SWIR and histogram analysis. Scientific Reports, 2015, 5, 15919.	3.3	78
32	1D Polymeric Platinum Cyanoximate: A Strategy toward Luminescence in the Near-Infrared Region beyond 1000 nm. Inorganic Chemistry, 2015, 54, 1890-1900.	4.0	39
33	Fluorescence anisotropy (polarization): from drug screening to precision medicine. Expert Opinion on Drug Discovery, 2015, 10, 1145-1161.	5.0	56
34	Fluorescence Lifetime for Studying Ophthalmic Diseases in Animal Models. , 2014, 55, 7216.		0
35	Minimization of selfâ€quenching fluorescence on dyes conjugated to biomolecules with multiple labeling sites via asymmetrically charged NIR fluorophores. Contrast Media and Molecular Imaging, 2014, 9, 355-362.	0.8	67
36	Design of Fluorescent Nanocapsules as Ratiometric Nanothermometers. Chemistry - A European Journal, 2014, 20, 10292-10297.	3.3	21

#	Article	IF	Citations
37	Central memory CD8+ T lymphocytes mediate lung allograft acceptance. Journal of Clinical Investigation, 2014, 124, 1130-1143.	8.2	97
38	Pyrazoleâ€substituted Nearâ€infrared Cyanine Dyes Exhibit <scp>pH</scp>â€dependent Fluorescence Lifetime Properties. Photochemistry and Photobiology, 2013, 89, 326-331.	2.5	23
39	Blood triggered rapid release porous nanocapsules. RSC Advances, 2013, 3, 5547.	3.6	18
40	Synthesis of nitric oxide probes with fluorescence lifetime sensitivity. Organic and Biomolecular Chemistry, 2013, 11, 8228.	2.8	16
41	Application of time-resolved fluorescence for direct and continuous probing of release from polymeric delivery vehicles. Journal of Controlled Release, 2013, 171, 308-314.	9.9	14
42	Evaluation of Inflammatory Response to Acute Ischemia Using Near-Infrared Fluorescent Reactive Oxygen Sensors. Molecular Imaging and Biology, 2013, 15, 423-430.	2.6	26
43	Sensitivity of activatable reactive oxygen species probes by fluorescence spectroelectrochemistry. Analyst, The, 2013, 138, 4363.	3.5	20
44	Multispectral imaging in the extended near-infrared window based on endogenous chromophores. Journal of Biomedical Optics, 2013, 18, 101318.	2.6	59
45	A NIR dye for development of peripheral nerve targeted probes. MedChemComm, 2012, 3, 685.	3.4	25
46	Dating Bloodstains with Fluorescence Lifetime Measurements. Chemistry - A European Journal, 2012, 18, 1303-1305.	3.3	30
47	Defining a Polymethine Dye for Fluorescence Anisotropy Applications in the Nearâ€Infrared Spectral Range. ChemPhysChem, 2012, 13, 716-723.	2.1	21
48	Two-Photon Optical Properties of Near-Infrared Dyes at 1.55 Î¼m Excitation. Journal of Physical Chemistry B, 2011, 115, 11530-11535.	2.6	38
49	Near-Infrared Fluorescence Lifetime pH-Sensitive Probes. Biophysical Journal, 2011, 100, 2063-2072.	0.5	56
50	Noninvasive Photoacoustic and Fluorescence Sentinel Lymph Node Identification using Dye-Loaded Perfluorocarbon Nanoparticles. ACS Nano, 2011, 5, 173-182.	14.6	184
51	Rational Approach To Select Small Peptide Molecular Probes Labeled with Fluorescent Cyanine Dyes for in Vivo Optical Imaging. Biochemistry, 2011, 50, 2691-2700.	2.5	79
52	Optical Imaging in Cancer Research: Basic Principles, Tumor Detection, and Therapeutic Monitoring. Medical Principles and Practice, 2011, 20, 397-415.	2.4	53
53	Multimodality Imaging of Gene Transfer with a Receptor-Based Reporter Gene. Journal of Nuclear Medicine, 2010, 51, 1456-1463.	5.0	21
54	Fluorescence Lifetime Measurements and Biological Imaging. Chemical Reviews, 2010, 110, 2641-2684.	47.7	1,860

#	Article	IF	Citations
55	Bright fluorescent nanoparticles for developing potential optical imaging contrast agents. Nanoscale, 2010, 2, 548.	5.6	71
56	pHâ€Dependent Optical Properties of Synthetic Fluorescent Imidazoles. Chemistry - A European Journal, 2009, 15, 3560-3566.	3.3	34
57	Long Fluorescence Lifetime Molecular Probes Based on Near Infrared Pyrrolopyrrole Cyanine Fluorophores for In Vivo Imaging. Biophysical Journal, 2009, 97, L22-L24.	0.5	82
58	Radioactivity-Synchronized Fluorescence Enhancement Using a Radionuclide Fluorescence-Quenched Dye. Journal of the American Chemical Society, 2009, 131, 9198-9200.	13.7	23
59	Engineering NIR dyes for fluorescent lifetime contrast. , 2009, 2009, 114-7.		13
60	Activatable Molecular Systems Using Homologous Near-Infrared Fluorescent Probes for Monitoring Enzyme Activitiesin Vitro,in Cellulo, andin Vivo. Molecular Pharmaceutics, 2009, 6, 416-427.	4.6	45
61	Near-Infrared Fluorescent pH-Sensitive Probes via Unexpected Barbituric Acid Mediated Synthesis. Organic Letters, 2009, 11, 29-32.	4.6	47
62	Nearâ€Infrared Dichromic Fluorescent Carbocyanine Molecules. Angewandte Chemie - International Edition, 2008, 47, 3584-3587.	13.8	35
63	Fluorescence lifetime properties of near-infrared cyanine dyes in relation to their structures. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 438-444.	3.9	65
64	Biodegradable pH-Sensing Dendritic Nanoprobes for Near-Infrared Fluorescence Lifetime and Intensity Imaging. Journal of the American Chemical Society, 2008, 130, 444-445.	13.7	121
65	Multimodal optical-nuclear molecular imaging of tumors. , 2008, , .		0
66	Monitoring the Biodegradation of Dendritic Near-Infrared Nanoprobes by in Vivo Fluorescence Imaging. Molecular Pharmaceutics, 2008, 5, 1103-1110.	4.6	64
67	Near Infrared Dyes as Lifetime Solvatochromic Probes for Micropolarity Measurements of Biological Systems. Biophysical Journal, 2007, 93, 2892-2899.	0.5	153
68	Novel synthon for incorporating 1,3-dimethyl-imidazolium group into molecular architecture. Tetrahedron Letters, 2007, 48, 1195-1199.	1.4	9
69	Ratiometric Analysis of Fluorescence Lifetime for Probing Binding Sites in Albumin with Nearâ€Infrared Fluorescent Molecular Probes. Photochemistry and Photobiology, 2007, 83, 1371-1378.	2.5	56
70	Monomolecular Multimodal Fluorescence-Radioisotope Imaging Agents. Bioconjugate Chemistry, 2005, 16, 1232-1239.	3.6	67