Mikhail Berezin

List of Publications by Year
in descending order

70 papers	4,645 citations	136950 32 h-index	114465 63 g-index
72 all docs	72 docs citations	72 times ranked	7527 citing authors

#	Article	IF	Citations
1	Fluorescence Lifetime Measurements and Biological Imaging. Chemical Reviews, 2010, 110, 2641-2684.	47.7	1,860
2	Noninvasive Photoacoustic and Fluorescence Sentinel Lymph Node Identification using Dye-Loaded Perfluorocarbon Nanoparticles. ACS Nano, 2011, 5, 173-182.	14.6	184
3	Fluorescence lifetime imaging ophthalmoscopy. Progress in Retinal and Eye Research, 2017, 60, 120-143.	15.5	161
4	Near Infrared Dyes as Lifetime Solvatochromic Probes for Micropolarity Measurements of Biological Systems. Biophysical Journal, 2007, 93, 2892-2899.	0.5	153
5	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
6	Shortwave-infrared (SWIR) emitters for biological imaging: a review of challenges and opportunities. Nanophotonics, 2017, 6, 1043-1054.	6.0	116
7	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
8	Central memory CD8+ T lymphocytes mediate lung allograft acceptance. Journal of Clinical Investigation, 2014, 124, 1130-1143.	8.2	97
9	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
10	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
11	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
12	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
13	Bright fluorescent nanoparticles for developing potential optical imaging contrast agents. Nanoscale, 2010, 2, 548.	5.6	71
14	Nanothermometry: From Microscopy to Thermal Treatments. ChemPhysChem, 2016, 17, 27-36.	2.1	70
15	Monomolecular Multimodal Fluorescence-Radioisotope Imaging Agents. Bioconjugate Chemistry, 2005, 16, 1232-1239.	3.6	67
16	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
17	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
18	Monitoring the Biodegradation of Dendritic Near-Infrared Nanoprobes by in Vivo Fluorescence Imaging. Molecular Pharmaceutics, 2008, 5, 1103-1110.	4.6	64

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19	Hyaluronan-Conjugated Carbon Quantum Dots for Bioimaging Use. ACS Applied Materials & Interfaces, 2021, 13, 277-286.	8.0	64
20	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
21	Multispectral imaging in the extended near-infrared window based on endogenous chromophores. Journal of Biomedical Optics, 2013, 18, 101318.	2.6	59
22	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
23	Near-Infrared Fluorescence Lifetime pH-Sensitive Probes. Biophysical Journal, 2011, 100, 2063-2072.	0.5	56
24	Fluorescence anisotropy (polarization): from drug screening to precision medicine. Expert Opinion on Drug Discovery, 2015, 10, 1145-1161.	5.0	56
25	Optical Imaging in Cancer Research: Basic Principles, Tumor Detection, and Therapeutic Monitoring. Medical Principles and Practice, 2011, 20, 397-415.	2.4	53
26	Near-Infrared Fluorescent pH-Sensitive Probes via Unexpected Barbituric Acid Mediated Synthesis. Organic Letters, 2009, 11, 29-32.	4.6	47
27	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
28	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
29	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
30	InÂvivo fate tracking of degradable nanoparticles for lung gene transfer using PET and Ä^erenkov imaging. Biomaterials, 2016, 98, 53-63.	11.4	36
31	Nearâ€Infrared Dichromic Fluorescent Carbocyanine Molecules. Angewandte Chemie - International Edition, 2008, 47, 3584-3587.	13.8	35
32	pHâ€Ðependent Optical Properties of Synthetic Fluorescent Imidazoles. Chemistry - A European Journal, 2009, 15, 3560-3566.	3.3	34
33	Dating Bloodstains with Fluorescence Lifetime Measurements. Chemistry - A European Journal, 2012, 18, 1303-1305.	3.3	30
34	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
35	A NIR dye for development of peripheral nerve targeted probes. MedChemComm, 2012, 3, 685.	3.4	25
36	Radioactivity-Synchronized Fluorescence Enhancement Using a Radionuclide Fluorescence-Quenched Dye. Journal of the American Chemical Society, 2009, 131, 9198-9200.	13.7	23

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37	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
38	Label-Free Macroscopic Fluorescence Lifetime Imaging of Brain Tumors. Frontiers in Oncology, 2021, 11, 666059.	2.8	23
39	Multimodality Imaging of Gene Transfer with a Receptor-Based Reporter Gene. Journal of Nuclear Medicine, 2010, 51, 1456-1463.	5.0	21
40	Defining a Polymethine Dye for Fluorescence Anisotropy Applications in the Nearâ€Infrared Spectral Range. ChemPhysChem, 2012, 13, 716-723.	2.1	21
41	Design of Fluorescent Nanocapsules as Ratiometric Nanothermometers. Chemistry - A European Journal, 2014, 20, 10292-10297.	3.3	21
42	Sensitivity of activatable reactive oxygen species probes by fluorescence spectroelectrochemistry. Analyst, The, 2013, 138, 4363.	3.5	20
43	Imaging in the repair of peripheral nerve injury. Nanomedicine, 2019, 14, 2659-2677.	3.3	19
44	Blood triggered rapid release porous nanocapsules. RSC Advances, 2013, 3, 5547.	3.6	18
45	Using Xenopus oocytes in neurological disease drug discovery. Expert Opinion on Drug Discovery, 2020, 15, 39-52.	5.0	17
46	Synthesis of nitric oxide probes with fluorescence lifetime sensitivity. Organic and Biomolecular Chemistry, 2013, 11, 8228.	2.8	16
47	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
48	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
49	Engineering NIR dyes for fluorescent lifetime contrast. , 2009, 2009, 114-7.		13
50	Design, modeling, and experimental validation of an acoustofluidic platform for nanoscale molecular synthesis and detection. Physics of Fluids, 2019, 31, 082007.	4.0	11
51	Novel synthon for incorporating 1,3-dimethyl-imidazolium group into molecular architecture. Tetrahedron Letters, 2007, 48, 1195-1199.	1.4	9
52	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
53	Temperature-dependent shape-responsive fluorescent nanospheres for image-guided drug delivery. Journal of Materials Chemistry C, 2016, 4, 3028-3035.	5.5	8
54	Augmented longitudinal acoustic trap for scalable microparticle enrichment. Biomicrofluidics, 2018, 12, 034110.	2.4	8

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55	Hyperspectral imaging and characterization of allergic contact dermatitis in the shortâ€wave infrared. Journal of Biophotonics, 2020, 13, e202000040.	2.3	8
56	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
57	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
58	Antibody Conjugate Assembly on Ultrasound-Confined Microcarrier Particles. ACS Biomaterials Science and Engineering, 2020, 6, 6108-6116.	5.2	6
59	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
60	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
61	Cell-free measurements of brightness of fluorescently labeled antibodies. Scientific Reports, 2017, 7, 41819.	3.3	3
62	Fluorescence lifetime imaging reveals heterogeneous functional distribution of eGFP expressed in Xenopus oocytes. Methods and Applications in Fluorescence, 2020, 8, 015001.	2.3	2
63	Detection of Cold Stress in Plants using Fluorescence Lifetime Imaging (FLIM). Current Analytical Chemistry, 2021, 17, 317-327.	1.2	2
64	HSKL: A Machine Learning Framework for Hyperspectral Image Analysis. , 2021, , .		1
65	IDCube Lite: Free Interactive Discovery Cube software for multi and hyperspectral applications. Journal of Spectral Imaging, 2021, 10, .	0.0	1
66	Multimodal optical-nuclear molecular imaging of tumors. , 2008, , .		0
67	Fluorescence Lifetime for Studying Ophthalmic Diseases in Animal Models. , 2014, 55, 7216.		0
68	Idcube Lite â€“ A Free Interactive Discovery Cube Software for Multi And Hyperspectral Applications. , 2021, , .		0
69	Detecting inflammatory responses in live animal models with near-infrared ROS probes. , 2019, , .		0
70	10.1063/1.5100149.1. , 2019, , .		0