

Vladimir N Belov

List of Publications by Citations

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73
papers

4,470
citations

33
h-index

66
g-index

84
ext. papers

5,111
ext. citations

6.4
avg, IF

5.27
L-index

#	Paper	IF	Citations
73	Direct observation of the nanoscale dynamics of membrane lipids in a living cell. <i>Nature</i> , 2009 , 457, 1159-624	11.5	1200
72	Partitioning, diffusion, and ligand binding of raft lipid analogs in model and cellular plasma membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 1777-84	3.8	258
71	Red-emitting rhodamine dyes for fluorescence microscopy and nanoscopy. <i>Chemistry - A European Journal</i> , 2010 , 16, 158-66	4.8	188
70	Multicolor far-field fluorescence nanoscopy through isolated detection of distinct molecular species. <i>Nano Letters</i> , 2008 , 8, 2463-8	11.5	175
69	Synthesis and characterization of photoswitchable fluorescent silica nanoparticles. <i>Small</i> , 2008 , 4, 134-421	4.1	159
68	Fluorescent Rhodamines and Fluorogenic Carbopyronines for Super-Resolution STED Microscopy in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3290-4	16.4	149
67	Reversible red fluorescent molecular switches. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7462-64	16.4	146
66	Fluorescent Photoswitchable Diarylethenes for Biolabeling and Single-Molecule Localization Microscopies with Optical Superresolution. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6611-6620	16.4	134
65	Rhodamines NN: a novel class of caged fluorescent dyes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3520-3	16.4	132
64	Fluorescent dyes with large Stokes shifts for super-resolution optical microscopy of biological objects: a review. <i>Methods and Applications in Fluorescence</i> , 2015 , 3, 042004	3.1	121
63	Rhodamine spiroamides for multicolor single-molecule switching fluorescent nanoscopy. <i>Chemistry - A European Journal</i> , 2009 , 15, 10762-76	4.8	97
62	Carboxylated Photoswitchable Diarylethenes for Biolabeling and Super-Resolution RESOLFT Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15429-15433	16.4	95
61	A Versatile Route to Red-Emitting Carbopyronine Dyes for Optical Microscopy and Nanoscopy. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 3593-3610	3.2	82
60	Multicolour Multilevel STED nanoscopy of Actin/Spectrin Organization at Synapses. <i>Scientific Reports</i> , 2016 , 6, 26725	4.9	77
59	New fluorinated rhodamines for optical microscopy and nanoscopy. <i>Chemistry - A European Journal</i> , 2010 , 16, 4477-88	4.8	77
58	Fluorescence nanoscopy with optical sectioning by two-photon induced molecular switching using continuous-wave lasers. <i>ChemPhysChem</i> , 2008 , 9, 321-6	3.2	73
57	SNAP-, CLIP- and Halo-tag labelling of budding yeast cells. <i>PLoS ONE</i> , 2013 , 8, e78745	3.7	72

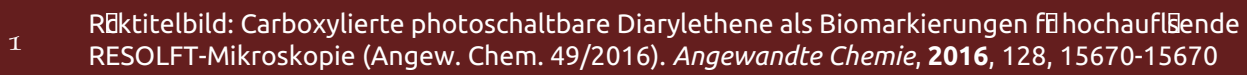
56	1,3-bicyclo[1.1.1]pentanediyl: the shortest rigid linear connector of phenylated photochromic units and a 1,5-dimethoxy-9,10-di(phenylethynyl)anthracene fluorophore. <i>Chemistry - A European Journal</i> , 2007 , 13, 2503-16	4.8	72
55	Novel red fluorophores with superior performance in STED microscopy. <i>Optical Nanoscopy</i> , 2012 , 1, 7		68
54	Photostable, amino reactive and water-soluble fluorescent labels based on sulfonated rhodamine with a rigidized xanthen fragment. <i>Chemistry - A European Journal</i> , 2008 , 14, 1784-92	4.8	66
53	4-Trifluoromethyl-substituted coumarins with large Stokes shifts: synthesis, bioconjugates, and their use in super-resolution fluorescence microscopy. <i>Chemistry - A European Journal</i> , 2013 , 19, 16556-63	4.8	65
52	Hydroxylated Fluorescent Dyes for Live-Cell Labeling: Synthesis, Spectra and Super-Resolution STED. <i>Chemistry - A European Journal</i> , 2017 , 23, 12114-12119	4.8	52
51	Masked rhodamine dyes of five principal colors revealed by photolysis of a 2-diazo-1-indanone caging group: synthesis, photophysics, and light microscopy applications. <i>Chemistry - A European Journal</i> , 2014 , 20, 13162-73	4.8	48
50	Fluorescent dyes and probes for super-resolution microscopy of microtubules and tracheoles in living cells and tissues. <i>Chemical Science</i> , 2018 , 9, 3324-3334	9.4	47
49	Reversibly Photoswitchable Fluorescent Diarylethenes Resistant against Photobleaching in Aqueous Solutions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16471-16478	16.4	44
48	Masked red-emitting carbopyronine dyes with photosensitive 2-diazo-1-indanone caging group. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 522-32	4.2	43
47	Two-Color 810 nm STED Nanoscopy of Living Cells with Endogenous SNAP-Tagged Fusion Proteins. <i>ACS Chemical Biology</i> , 2018 , 13, 475-480	4.9	42
46	Polar red-emitting rhodamine dyes with reactive groups: synthesis, photophysical properties, and two-color STED nanoscopy applications. <i>Chemistry - A European Journal</i> , 2014 , 20, 146-57	4.8	42
45	Switchable Fluorescent and Solvatochromic Molecular Probes Based on 4-Amino-N-methylphthalimide and a Photochromic Diarylethene. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 2531-2538	3.2	41
44	Phosphorylated 3-heteroaryl coumarins and their use in fluorescence microscopy and nanoscopy. <i>Chemistry - A European Journal</i> , 2012 , 18, 16339-48	4.8	40
43	Far-Red Emitting Fluorescent Dyes for Optical Nanoscopy: Fluorinated Silicon-Rhodamines (SiRF Dyes) and Phosphorylated Oxazines. <i>Chemistry - A European Journal</i> , 2015 , 21, 13344-56	4.8	36
42	Red-emitting rhodamines with hydroxylated, sulfonated, and phosphorylated dye residues and their use in fluorescence nanoscopy. <i>Chemistry - A European Journal</i> , 2012 , 18, 12986-98	4.8	36
41	Spirocyclopropanated bicyclopropylidenes: straightforward preparation, physical properties, and chemical transformations. <i>Chemistry - A European Journal</i> , 2001 , 7, 4021-34	4.8	34
40	New GM1 Ganglioside Derivatives for Selective Single and Double Labelling of the Natural Glycosphingolipid Skeleton. <i>European Journal of Organic Chemistry</i> , 2009 , 2009, 5162-5177	3.2	31
39	Fluoreszierende Rhodamine und fluorogene Carbopyronine für die STED-Mikroskopie lebender Zellen. <i>Angewandte Chemie</i> , 2016 , 128, 3350-3355	3.6	31

38	Carborhodol: a new hybrid fluorophore obtained by combination of fluorescein and carbopyronine dye cores. <i>Bioconjugate Chemistry</i> , 2013 , 24, 690-700	6.3	27
37	Reversible rot fluoreszierende molekulare Schalter. <i>Angewandte Chemie</i> , 2006 , 118, 7623-7627	3.6	27
36	Access to Variously Substituted 5,6,7,8-Tetrahydro-3H-quinazolin-4-ones via Diels-Alder Adducts of Phenyl Vinyl Sulfone to Cyclobutene-Annulated Pyrimidinones. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 2753-2765	3.2	24
35	PONy Dyes: Direct Addition of P(III) Nucleophiles to Organic Fluorophores. <i>Organic Letters</i> , 2018 , 20, 1261-1264	6.2	23
34	. <i>European Journal of Organic Chemistry</i> , 1998 , 1998, 777-783	3.2	22
33	Fast determination of hydroxylated polychlorinated biphenyls in human plasma by online solid phase extraction coupled to liquid chromatography-tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 888, 94-102	6.6	21
32	Synthesis of Photochromic Compounds for Aqueous Solutions and Focusable Light. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 3301-3312	3.2	18
31	"Reduced" Coumarin Dyes with an O-Phosphorylated 2,2-Dimethyl-4-(hydroxymethyl)-1,2,3,4-tetrahydroquinoline Fragment: Synthesis, Spectra, and STED Microscopy. <i>Chemistry - A European Journal</i> , 2016 , 22, 11631-42	4.8	17
30	Photoactivatable Rhodamine Spiroamides and Diazoketones Decorated with "Universal Hydrophilizer" or Hydroxyl Groups. <i>Journal of Organic Chemistry</i> , 2018 , 83, 6466-6476	4.2	17
29	Novel antibiotics for the treatment of gram-positive bacterial infections. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 4246-53	8.3	17
28	Asymmetric Diarylethenes with Oxidized 2-Alkylbenzothiophen-3-yl Units: Chemistry, Fluorescence, and Photoswitching. <i>Advanced Optical Materials</i> , 2019 , 7, 1801746	8.1	17
27	Carboxylierte photoschaltbare Diarylethene als Biomarkierungen für hochauflösende RESOLFT-Mikroskopie. <i>Angewandte Chemie</i> , 2016 , 128, 15655-15659	3.6	15
26	First enantioselective synthesis of the novel anti-infective TAN-1057A via its aminomethyl-substituted dihydropyrimidinone heterocycle. <i>Tetrahedron</i> , 2004 , 60, 7579-7589	2.4	15
25	Photoswitching Emission with Rhodamine Spiroamides for Super-resolution Fluorescence nanoscopies. <i>Israel Journal of Chemistry</i> , 2013 , 53, 267-279	3.4	14
24	Green-Emitting Rhodamine Dyes for Vital Labeling of Cell Organelles Using STED Super-Resolution Microscopy. <i>ChemBioChem</i> , 2019 , 20, 2248-2254	3.8	13
23	Functionalization of the meso-Phenyl Ring of Rhodamine Dyes Through SNAr with Sulfur Nucleophiles: Synthesis, Biophysical Characterizations, and Comprehensive NMR Analysis. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 337-349	3.2	12
22	Bichromophoric Compounds with Orthogonally and Parallely Arranged Chromophores Separated by Rigid Spacers. <i>Chemistry - A European Journal</i> , 2017 , 23, 2469-2475	4.8	10
21	Turn-on mode diarylethenes for bioconjugation and fluorescence microscopy of cellular structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	10

20	Photoactivatable Fluorophore for Stimulated Emission Depletion (STED) Microscopy and Bioconjugation Technique for Hydrophobic Labels. <i>Chemistry - A European Journal</i> , 2021 , 27, 451-458	4.8	10
19	Synthesis of Fluorescent Jasplakinolide Analogues for Live-Cell STED Microscopy of Actin. <i>Journal of Organic Chemistry</i> , 2020 , 85, 7267-7275	4.2	8
18	Multicolour fluorescent "sulfide-sulfone" diarylethenes with high photo-fatigue resistance. <i>Chemical Communications</i> , 2020 , 56, 2198-2201	5.8	8
17	Negatively Charged Yellow-Emitting 1-Aminopyrene Dyes for Reductive Amination and Fluorescence Detection of Glycans. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5505-5509	16.4	8
16	High-Affinity Functional Fluorescent Ligands for Human β Adrenoceptors. <i>Scientific Reports</i> , 2017 , 7, 12319	4.9	7
15	Mono- and bithiophene-substituted diarylethene photoswitches with emissive open or closed forms. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 2344-2354	2.5	6
14	Facile Access to Isotopically Labelled Valylleucyl Anilides as Biomarkers for the Quantification of Hemoglobin Adducts to Toxic Electrophiles. <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 5094-5099	3.3	6
13	Negatively Charged Red-Emitting Acridine Dyes for Facile Reductive Amination, Separation, and Fluorescent Detection of Glycans. <i>Analytical Chemistry</i> , 2020 , 92, 5329-5336	7.8	4
12	Mixed monolayers of a rhodamine derivative. <i>Mendeleev Communications</i> , 2010 , 20, 203-204	1.9	4
11	Rhodamines with a Chloronicotinic Acid Fragment for Live Cell Superresolution STED Microscopy*. <i>Chemistry - A European Journal</i> , 2021 , 27, 6070-6076	4.8	4
10	Fluorescence Assisted Capillary Electrophoresis of Glycans Enabled by the Negatively Charged Auxochromes in 1-Aminopyrenes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3720-3726	16.4	4
9	Negativ geladene gelb emittierende 1-Aminopyrene für reductive Aminierung und Fluoreszenznachweis von Glykanen. <i>Angewandte Chemie</i> , 2020 , 132, 5547-5551	3.6	3
8	Masked Rhodamine Dyes of Five Principal Colors Revealed by Photolysis of a 2-Diazo-1-Indanone Caging Group: Synthesis, Photophysics, and Light Microscopy Applications. <i>Chemistry - A European Journal</i> , 2014 , 20, 13044-13044	4.8	1
7	Syntheses of D-Labelled Oxidative Metabolites of Acrylamide and Acrylonitrile for the Quantification of Their Toxicities in Humans. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 4417-4423	2.2	1
6	Human Metabolism and Urinary Excretion Kinetics of Nonylphenol in Three Volunteers after a Single Oral Dose. <i>Chemical Research in Toxicology</i> , 2021 , 34, 2392-2403	4	1
5	Total synthesis of C, N-imidacloprid with three stable isotopes in the pyridine ring. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2019 , 62, 126-131	1.9	1
4	Fluorescence Assisted Capillary Electrophoresis of Glycans Enabled by the Negatively Charged Auxochromes in 1-Aminopyrenes. <i>Angewandte Chemie</i> , 2021 , 133, 3764-3770	3.6	1
3	A Novel Rearrangement of Cyclic Glutamine Derivatives: Ring Contraction in 3,6-Diamino-2,3,4,5-tetrahydropyridin-2-ones to Yield 5-Iminoproline Amides. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 4093-4097	3.2	0

2 Photoswitchable Fluorophores for Super-Resolution Optical Microscopy **2022**, 605-626

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1  Reaktitelbild: Carboxylierte photoschaltbare Diarylethene als Biomarkierungen für hochauflösende RESOLFT-Mikroskopie (Angew. Chem. 49/2016). *Angewandte Chemie*, **2016**, 128, 15670-15670

3.6