Volodymyr V Shvadchak

List of Publications by Year
in descending order

60 papers	1,590 citations	218381 26 h-index	301761 39 g-index
62 all docs	62 docs citations	62 times ranked	1858 citing authors

#	Article	IF	Citations
1	Specificity and Kinetics of Î±-Synuclein Binding to Model Membranes Determined with Fluorescent Excited State Intramolecular Proton Transfer (ESIPT) Probe. Journal of Biological Chemistry, 2011, 286, 13023-13032.	1.6	90
2	Excited-State Intramolecular Proton Transfer Distinguishes Microenvironments in Single- And Double-Stranded DNA. Journal of Physical Chemistry B, 2008, 112, 12050-12055.	1.2	88
3	Highly Solvatochromic 7-Aryl-3-hydroxychromones. Journal of Physical Chemistry Letters, 2012, 3, 1011-1016.	2.1	85
4	Targeting the Viral Nucleocapsid Protein in Anti-HIV-1 Therapy. Mini-Reviews in Medicinal Chemistry, 2008, 8, 24-35.	1.1	73
5	The mode of Î±-synuclein binding to membranes depends on lipid composition and lipid to protein ratio. FEBS Letters, 2011, 585, 3513-3519.	1.3	66
6	Sensing peptideâ€"oligonucleotide interactions by a two-color fluorescence label: application to the HIV-1 nucleocapsid protein. Nucleic Acids Research, 2009, 37, e25-e25.	6.5	64
7	Efficient Synthesis of Ratiometric Fluorescent Nucleosides Featuring 3-Hydroxychromone Nucleobases. Tetrahedron, 2009, 65, 7809-7816.	1.0	63
8	Modulation of Excited-State Intramolecular Proton Transfer by Viscosity in Protic Media. Journal of Physical Chemistry A, 2007, 111, 10435-10438.	1.1	61
9	Modification of C Terminus Provides New Insights into the Mechanism of Î±-Synuclein Aggregation. Biophysical Journal, 2017, 113, 2182-2191.	0.2	59
10	Improved Hydration-Sensitive Dual-Fluorescence Labels For Monitoring Peptideâˆ'Nucleic Acid Interactions. Bioconjugate Chemistry, 2011, 22, 101-107.	1.8	51
11	Probing dynamics of HIV-1 nucleocapsid protein/target hexanucleotide complexes by 2-aminopurine. Nucleic Acids Research, 2007, 36, 885-896.	6.5	50
12	2-Aryl-3-hydroxyquinolones, a new class of dyes with solvent dependent dual emission due to excited state intramolecular proton transfer. New Journal of Chemistry, 2006, 30, 774-781.	1.4	48
13	Identification by high throughput screening of small compounds inhibiting the nucleic acid destabilization activity of the HIV-1 nucleocapsid protein. Biochimie, 2009, 91, 916-923.	1.3	47
14	Modulation of dual fluorescence in a 3-hydroxyquinolone dye by perturbation of its intramolecular proton transfer with solvent polarity and basicity. Photochemical and Photobiological Sciences, 2006, 5, 1038-1044.	1.6	43
15	Fibril Breaking Accelerates Î±-Synuclein Fibrillization. Journal of Physical Chemistry B, 2015, 119, 1912-1918.	1.2	43
16	3-Hydroxybenzo[g]quinolones: dyes with red-shifted absorption and highly resolved dual emission. Tetrahedron Letters, 2009, 50, 4714-4719.	0.7	40
17	Monitoring membrane binding and insertion of peptides by two-color fluorescent label. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 424-432.	1.4	38
18	Fluorescent dyes undergoing intramolecular proton transfer with improved sensitivity to surface charge in lipid bilayers. Photochemical and Photobiological Sciences, 2007, 6, 71-76.	1.6	37

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19	Î±-Synuclein aggregation at low concentrations. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 701-709.	1.1	37
20	Two-Color Fluorescent <scp>l</scp>-Amino Acid Mimic of Tryptophan for Probing Peptideâ€“Nucleic Acid Complexes. Bioconjugate Chemistry, 2012, 23, 2434-2443.	1.8	36
21	Steric Control of the Excited-State Intramolecular Proton Transfer in 3-Hydroxyquinolones:â€‰ Steady-State and Time-Resolved Fluorescence Study. Journal of Physical Chemistry A, 2007, 111, 8986-8992.	1.1	33
22	Membrane insertion ofâ€”and membrane potential sensing byâ€”semiconductor voltage nanosensors: Feasibility demonstration. Science Advances, 2018, 4, e1601453.	4.7	33
23	Dual-Fluorescence <scp>l</scp>-Amino Acid Reports Insertion and Orientation of Melittin Peptide in Cell Membranes. Bioconjugate Chemistry, 2013, 24, 1998-2007.	1.8	32
24	A peptide-based fluorescent ratiometric sensor for quantitative detection of proteins. Analytical Biochemistry, 2010, 401, 188-195.	1.1	30
25	Monitoring penetratin interactions with lipid membranes and cell internalization using a new hydration-sensitive fluorescent probe. Organic and Biomolecular Chemistry, 2014, 12, 7036-7044.	1.5	27
26	Inhibition of Î±â€Synuclein Amyloid Fibril Elongation by Blocking Fibril Ends. Angewandte Chemie - International Edition, 2018, 57, 5690-5694.	7.2	27
27	Dual-Fluorescence Probe of Environment Basicity (Hydrogen Bond Accepting Ability) Displaying no Sensitivity to Polarity. Journal of Fluorescence, 2009, 19, 545-553.	1.3	25
28	Influence of Lipid Membranes on Î±-Synuclein Aggregation. ACS Chemical Neuroscience, 2021, 12, 825-830.	1.7	24
29	3-Hydroxybenzo[g]chromones: Fluorophores with red-shifted absorbance and highly sensitive to polarity emission. Sensors and Actuators B: Chemical, 2018, 265, 691-698.	4.0	23
30	Quantification of Local Hydration at the Surface of Biomolecules Using Dual-Fluorescence Labels. Journal of Physical Chemistry A, 2012, 116, 3103-3109.	1.1	22
31	Fluorescent Probe for Selective Imaging of Î±-Synuclein Fibrils in Living Cells. ACS Chemical Neuroscience, 2021, 12, 1293-1298.	1.7	21
32	Environmentally sensitive probes for monitoring protein-membrane interactions at nanomolar concentrations. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 852-859.	1.4	20
33	Redâ€Shifted Waterâ€Soluble BODIPY Photocages for Visualisation and Controllable Cellular Delivery of Signaling Lipids. Angewandte Chemie - International Edition, 2022, 61, .	7.2	18
34	A Four-Amino Acid Linker between Repeats in the Î±-Synuclein Sequence Is Important for Fibril Formation. Biochemistry, 2014, 53, 279-281.	1.2	17
35	Environment-sensitive quinolone demonstrating long-lived fluorescence and unusually slow excited-state intramolecular proton transfer kinetics. Methods and Applications in Fluorescence, 2016, 4, 034004.	1.1	14
36	Î±-Synuclein Dimers as Potent Inhibitors of Fibrillization. Journal of Medicinal Chemistry, 2019, 62, 10342-10351.	2.9	14

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37	Synthesis of a Fluorescent Probe for Sensing Multiple Protein States. European Journal of Organic Chemistry, 2018, 2018, 5155-5162.	1.2	13
38	Nitrobenzyl-based fluorescent photocages for spatial and temporal control of signalling lipids in cells. Chemical Communications, 2019, 55, 12288-12291.	2.2	13
39	Structural Optimization of Inhibitors of Î±-Synuclein Fibril Growth: Affinity to the Fibril End as a Crucial Factor. Journal of Molecular Biology, 2020, 432, 967-977.	2.0	11
40	Characterization of the mechanisms of HIV-1 Vpr(52â€“96) internalization in cells. Biochimie, 2011, 93, 1647-1658.	1.3	10
41	Synthesis and structure of complexes of phosphorus pentachloride with 4â€dimethylaminopyridine and <i>n</i>â€methylimidazole. Heteroatom Chemistry, 2008, 19, 171-177.	0.4	9
42	Rationally Designed Protein-Based Inhibitor of Î±-Synuclein Fibrillization in Cells. Journal of Medicinal Chemistry, 2021, 64, 6827-6837.	2.9	9
43	Reversible spatial and temporal control of lipid signaling. Chemical Communications, 2020, 56, 10646-10649.	2.2	6
44	Inhibition of Î±â€Synuclein Amyloid Fibril Elongation by Blocking Fibril Ends. Angewandte Chemie, 2018, 130, 5792-5796.	1.6	4
45	Rationally Designed Peptides as Efficient Inhibitors of Nucleic Acid Chaperone Activity of HIV-1 Nucleocapsid Protein. Biochemistry, 2018, 57, 4562-4573.	1.2	4
46	Non-uniform self-assembly: On the anisotropic architecture of Î±-synuclein supra-fibrillar aggregates. Scientific Reports, 2017, 7, 7699.	1.6	3
47	Di(benzothienyl)cyclobutenes: Toward Strained Photoswitchable Fluorophores. ChemPlusChem, 2020, 85, 2084-2092.	1.3	3
48	FRETâ€based assay for intracellular evaluation of Î±â€synuclein aggregation inhibitors. Journal of Neurochemistry, 2021, 159, 901-912.	2.1	3
49	Fibril Breaking Accelerates Î±-Synuclein Fibrillization. Biophysical Journal, 2015, 108, 63a.	0.2	1
50	Dichlorophosphate anion in the synthesis of thioamides. Russian Journal of General Chemistry, 2006, 76, 1019-1021.	0.3	0
51	Ratiometric Fluorescent ESIPT Probe Characterizes Binding of Alpha-Synuclein to Membranes. Biophysical Journal, 2010, 98, 483a.	0.2	0
52	Comparison of Î±-Synuclein and Amyloid Beta Membrane Interactions. Biophysical Journal, 2012, 102, 11a.	0.2	0
53	Association of Î±-Synuclein with Lipid Vesicles. Stopped-Flow Kinetics of Concerted Binding and Conformational Change. Biophysical Journal, 2014, 106, 248a.	0.2	0
54	Repeats in the Î±-Synuclein Sequence Determine its Conformation on Membranes and Influence Aggregation Properties. Biophysical Journal, 2014, 106, 268a.	0.2	0

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55	Sensing Membrane Potential by Inorganic Semiconductor Nanorods. Biophysical Journal, 2016, 110, 519a-520a.	0.2	0
56	Progress in Developing (Single) Inorganic Voltage Nanosensors. Biophysical Journal, 2018, 114, 5a.	0.2	0
57	Structural Optimization of Î±-Synuclein Fibril Growth Inhibitors. Biophysical Journal, 2019, 116, 492a.	0.2	0
58	Inhibition of A-Synuclein Amyloid Fibril Elongation by Blocking Fibril Ends. Biophysical Journal, 2019, 116, 491a.	0.2	0
59	Î±-Synuclein Dimers as Potent Inhibitors of Fibrillization. Biophysical Journal, 2020, 118, 370a.	0.2	0
60	Redâ€Shifted Waterâ€Soluble BODIPY Photocages for Visualisation and Controllable Cellular Delivery of Signaling Lipids. Angewandte Chemie, 0, , .	1.6	0