

Sofiya Kolusheva

List of Publications by Year in descending order

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95
papers

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101543

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99
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docs citations

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times ranked

5775
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbohydrate Biosensors. <i>Chemical Reviews</i> , 2004, 104, 5987-6016.	47.7	337
2	Self-assembling dipeptide antibacterial nanostructures with membrane disrupting activity. <i>Nature Communications</i> , 2017, 8, 1365.	12.8	299
3	Carbohydrate Biosensors. <i>ChemInform</i> , 2005, 36, no.	0.0	223
4	Cation-Selective Color Sensors Composed of Ionophore α -Phospholipid α -Polydiacetylene Mixed Vesicles. <i>Journal of the American Chemical Society</i> , 2000, 122, 776-780.	13.7	217
5	A colorimetric assay for rapid screening of antimicrobial peptides. <i>Nature Biotechnology</i> , 2000, 18, 225-227.	17.5	209
6	Green synthesis of gold nanoparticles using plant extracts as reducing agents. <i>International Journal of Nanomedicine</i> , 2014, 9, 4007.	6.7	209
7	The Human Islet Amyloid Polypeptide Forms Transient Membrane-Active Prefibrillar Assemblies. <i>Biochemistry</i> , 2003, 42, 10971-10977.	2.5	168
8	Rapid Colorimetric Detection of Antibody α -Epitope Recognition at a Biomimetic Membrane Interface. <i>Journal of the American Chemical Society</i> , 2001, 123, 417-422.	13.7	166
9	Peptide α -Membrane Interactions Studied by a New Phospholipid/Polydiacetylene Colorimetric Vesicle Assay α . <i>Biochemistry</i> , 2000, 39, 15851-15859.	2.5	162
10	Colorimetric Polydiacetylene α -Aerogel Detector for Volatile Organic Compounds (VOCs). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2891-2898.	8.0	139
11	Color Fingerprinting of Proteins by Calixarenes Embedded in Lipid/Polydiacetylene Vesicles. <i>Journal of the American Chemical Society</i> , 2006, 128, 13592-13598.	13.7	130
12	Polymerized lipid vesicles as colorimetric biosensors for biotechnological applications. <i>Biotechnology Advances</i> , 2001, 19, 109-118.	11.7	124
13	Selective Detection of Catecholamines by Synthetic Receptors Embedded in Chromatic Polydiacetylene Vesicles. <i>Journal of the American Chemical Society</i> , 2005, 127, 10000-10001.	13.7	102
14	Membrane interactions of ionic liquids: Possible determinants for biological activity and toxicity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2967-2974.	2.6	102
15	Interactions of Mouse Paneth Cell α -Defensins and α -Defensin Precursors with Membranes. <i>Journal of Biological Chemistry</i> , 2003, 278, 13838-13846.	3.4	96
16	Chiral modulation of amyloid beta fibrillation and cytotoxicity by enantiomeric carbon dots. <i>Chemical Communications</i> , 2018, 54, 7762-7765.	4.1	95
17	Rapid Chromatic Detection of Bacteria by Use of a New Biomimetic Polymer Sensor. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7339-7344.	3.1	85
18	Dynamics of Photoinduced Degradation of Perovskite Photovoltaics: From Reversible to Irreversible Processes. <i>ACS Applied Energy Materials</i> , 2018, 1, 799-806.	5.1	85

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19	Membrane analysis with amphiphilic carbon dots. <i>Chemical Communications</i> , 2014, 50, 10299-10302.	4.1	84
20	Poly(methyl methacrylate)-Supported Polydiacetylene Films: Unique Chromatic Transitions and Molecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8613-8620.	8.0	70
21	Colorimetric Detection and Fingerprinting of Bacteria by Glass-Supported Lipid/Polydiacetylene Films. <i>Langmuir</i> , 2007, 23, 4682-4687.	3.5	69
22	Intrinsic Fluorescence of Metabolite Amyloids Allows Label-Free Monitoring of Their Formation and Dynamics in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12444-12447.	13.8	67
23	Structure-Activity Determinants in Paneth Cell α -Defensins. <i>Journal of Biological Chemistry</i> , 2004, 279, 11976-11983.	3.4	63
24	Bacoside-A, an Indian Traditional-Medicine Substance, Inhibits β -Amyloid Cytotoxicity, Fibrillation, and Membrane Interactions. <i>ACS Chemical Neuroscience</i> , 2017, 8, 884-891.	3.5	60
25	Visualization of Membrane Processes in Living Cells by Surface-Attached Chromatic Polymer Patches. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1092-1096.	13.8	59
26	Biomimetic lipid/polymer colorimetric membranes. <i>Journal of Lipid Research</i> , 2003, 44, 65-71.	4.2	58
27	Investigations of antimicrobial peptides in planar film systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1393-1407.	2.6	58
28	Membrane binding and permeation by indolicidin analogs studied by a biomimetic lipid/polydiacetylene vesicle assay. <i>Peptides</i> , 2003, 24, 1753-1761.	2.4	57
29	Quantitative interactions between cryptdin-4 amino terminal variants and membranes. <i>Peptides</i> , 2003, 24, 1795-1805.	2.4	53
30	Lipid binding and membrane penetration of polymyxin B derivatives studied in a biomimetic vesicle system. <i>Biochemical Journal</i> , 2003, 375, 405-413.	3.7	53
31	Biomolecular Sensing with Colorimetric Vesicles. , 2007, , 155-180.		52
32	Membrane Interactions of Host-defense Peptides Studied in Model Systems. <i>Current Protein and Peptide Science</i> , 2005, 6, 103-114.	1.4	50
33	Selective Labeling and Growth Inhibition of <i>Pseudomonas aeruginosa</i> by Aminoguanidine Carbon Dots. <i>ACS Infectious Diseases</i> , 2019, 5, 292-302.	3.8	50
34	Rapid Colorimetric Screening of Drug Interaction and Penetration Through Lipid Barriers. <i>Pharmaceutical Research</i> , 2006, 23, 580-588.	3.5	48
35	A new colorimetric assay for studying and rapid screening of membrane penetration enhancers. <i>Pharmaceutical Research</i> , 2001, 18, 943-949.	3.5	47
36	Imaging <i>Pseudomonas aeruginosa</i> Biofilm Extracellular Polymer Scaffolds with Amphiphilic Carbon Dots. <i>ACS Chemical Biology</i> , 2016, 11, 1265-1270.	3.4	43

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37	Cation Diffusion Facilitators Transport Initiation and Regulation Is Mediated by Cation Induced Conformational Changes of the Cytoplasmic Domain. <i>PLoS ONE</i> , 2014, 9, e92141.	2.5	41
38	Structure–function studies of the magnetite-biomineralizing magnetosome-associated protein MamC. <i>Journal of Structural Biology</i> , 2016, 194, 244-252.	2.8	40
39	Bilayer localization of membrane-active peptides studied in biomimetic vesicles by visible and fluorescence spectroscopies. <i>FEBS Journal</i> , 2003, 270, 4478-4487.	0.2	36
40	Detection and analysis of membrane interactions by a biomimetic colorimetric lipid/polydiacetylene assay. <i>Analytical Biochemistry</i> , 2003, 319, 96-104.	2.4	34
41	Glass-supported lipid/polydiacetylene films for colour sensing of membrane-active compounds. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3247-3251.	10.1	34
42	Aggregation of Oligoarginines at Phospholipid Membranes: Molecular Dynamics Simulations, Time-Dependent Fluorescence Shift, and Biomimetic Colorimetric Assays. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11530-11540.	2.6	34
43	Microscopic Visualization of Alamethicin Incorporation into Model Membrane Monolayers. <i>Langmuir</i> , 2004, 20, 11084-11091.	3.5	32
44	Lipid-Bilayer Dynamics Probed by a Carbon Dot-Phospholipid Conjugate. <i>Biophysical Journal</i> , 2016, 110, 2016-2025.	0.5	31
45	Pardaxin, a fish toxin peptide interaction with a biomimetic phospholipid/polydiacetylene membrane assay. <i>Peptides</i> , 2008, 29, 1620-1625.	2.4	30
46	Membrane interactions and lipid binding of casein oligomers and early aggregates. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2341-2349.	2.6	30
47	Lipid/Polydiacetylene Films for Colorimetric Protein Surface-Charge Analysis. <i>Analytical Chemistry</i> , 2008, 80, 7804-7811.	6.5	28
48	Toxicity Inhibitors Protect Lipid Membranes from Disruption by A β 42. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1860-1869.	3.5	28
49	Bolaamphiphilic vesicles encapsulating iron oxide nanoparticles: New vehicles for magnetically targeted drug delivery. <i>International Journal of Pharmaceutics</i> , 2013, 450, 241-249.	5.2	26
50	Membrane Interactions of Novicidin, a Novel Antimicrobial Peptide: Phosphatidylglycerol Promotes Bilayer Insertion. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11053-11060.	2.6	25
51	Lipid Bilayers Significantly Modulate Cross-Fibrillation of Two Distinct Amyloidogenic Peptides. <i>Journal of the American Chemical Society</i> , 2013, 135, 13582-13589.	13.7	25
52	Highly-doped Nd:YAG ceramics fabricated by conventional and high pressure SPS. <i>Ceramics International</i> , 2019, 45, 12279-12284.	4.8	24
53	Arachidonic acid is important for efficient use of light by the microalga <i>Lobosphaera incisa</i> under chilling stress. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 853-868.	2.4	23
54	Lysine-Derived Carbon Dots for Chiral Inhibition of Prion Peptide Fibril Assembly. <i>Advanced Therapeutics</i> , 2018, 1, 1800006.	3.2	23

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55	Phospholipid-Induced Fibrillation of a Prion Amyloidogenic Determinant at the Air/Water Interface. <i>Langmuir</i> , 2009, 25, 12501-12506.	3.5	22
56	Some Phorbol Esters Might Partially Resemble Bryostatin 1 in their Actions on LNCaP Prostate Cancer Cells and U937 Leukemia Cells. <i>ChemBioChem</i> , 2011, 12, 1242-1251.	2.6	22
57	Understanding the Biomineralization Role of Magnetite-Interacting Components (MICs) From Magnetotactic Bacteria. <i>Frontiers in Microbiology</i> , 2018, 9, 2480.	3.5	21
58	Metabolite amyloid-like fibrils interact with model membranes. <i>Chemical Communications</i> , 2018, 54, 4561-4564.	4.1	20
59	Bacoside-A, an anti-amyloid natural substance, inhibits membrane disruption by the amyloidogenic determinant of prion protein through accelerating fibril formation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2208-2214.	2.6	18
60	Unilamellar Vesicles from Amphiphilic Graphene Quantum Dots. <i>Chemistry - A European Journal</i> , 2015, 21, 7755-7759.	3.3	16
61	Membrane anchoring of diacylglycerol lactones substituted with rigid hydrophobic acyl domains correlates with biological activities. <i>FEBS Journal</i> , 2010, 277, 233-243.	4.7	15
62	N-terminal aromatic residues closely impact the cytolytic activity of cupiennin 1a, a major spider venom peptide. <i>Toxicon</i> , 2013, 75, 177-186.	1.6	15
63	Membrane Interactions and Metal Ion Effects on Bilayer Permeation of the Lipophilic Ion Modulator DP-109. <i>Biochemistry</i> , 2005, 44, 12077-12085.	2.5	13
64	Chromatic Dendrimer/Polydiacetylene Nanoparticles. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2931-2937.	4.4	12
65	Screening Membrane Interactions of Pesticides by Cells Decorated with Chromatic Polymer Nanopatches. <i>Chemical Research in Toxicology</i> , 2009, 22, 90-96.	3.3	11
66	Synthesis, biological, and biophysical studies of DAG-indololactones designed as selective activators of RasGRP. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 3123-3140.	3.0	11
67	Nanoparticles modulate membrane interactions of human Islet amyloid polypeptide (hIAPP). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1810-1817.	2.6	11
68	Cardiolipin mediates curcumin interactions with mitochondrial membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 75-82.	2.6	11
69	Imaging membrane processes in erythrocyte ghosts by surface fusion of a chromatic polymer. <i>Analytical Biochemistry</i> , 2006, 348, 151-153.	2.4	10
70	Structure and membrane-targeting of a <i>Bordetella pertussis</i> effector N-terminal domain. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183054.	2.6	10
71	Membrane processes and biophysical characterization of living cells decorated with chromatic polydiacetylene vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1335-1343.	2.6	9
72	Methyl-Substituted Fluorescent DAG-Indololactone Isomers Exhibit Dramatic Differences in Membrane Interactions and Biological Activity. <i>ChemBioChem</i> , 2011, 12, 2331-2340.	2.6	9

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73	Biofilm Formation on Chromatic Solâ€“Gel/Polydiacetylene Films. ChemPlusChem, 2012, 77, 752-757.	2.8	9
74	Metal binding to the dynamic cytoplasmic domain of the cation diffusion facilitator (CDF) protein MamM induces a â€“lockedâ€“ configuration. FEBS Journal, 2019, 286, 2193-2215.	4.7	9
75	Conformationally Constrained Analogues of Diacylglycerol (DAG). 31. Modulation of the Biological Properties of Diacylglycerol Lactones (DAG-lactones) Containing Rigid-Rod Acyl Groups Separated from the Core Lactone by Spacer Units of Different Lengths. Journal of Medicinal Chemistry, 2009, 52, 3274-3283.	6.4	8
76	BtcA, A Class IA Type III Chaperone, Interacts with the BteA N-Terminal Domain through a Globular/Non-Globular Mechanism. PLoS ONE, 2013, 8, e81557.	2.5	8
77	Polydiacetylene-supported silica films formed at the air/water interface. Journal of Colloid and Interface Science, 2011, 364, 428-434.	9.4	7
78	Tyrosine carbon dots inhibit fibrillation and toxicity of the human islet amyloid polypeptide. Nanoscale Advances, 2020, 2, 5866-5873.	4.6	7
79	Colorimetric Polymer Assay for the Diagnosis of Plasma Lipids Atherogenic Quality in Hypercholesterolemic Patients. Molecular Diagnosis and Therapy, 2015, 19, 35-43.	3.8	6
80	Lipoprotein interactions with chromatic membranes as a novel marker for oxidative stress-related diseases. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2436-2443.	2.6	5
81	A Novel â€“Reactomicsâ€“ Approach for Cancer Diagnostics. Sensors, 2012, 12, 5572-5585.	3.8	5
82	Characterization of the N-Terminal Domain of BteA: A Bordetella Type III Secreted Cytotoxic Effector. PLoS ONE, 2013, 8, e55650.	2.5	5
83	Ultrashort Cell-Penetrating Peptides for Enhanced Sonophoresis-Mediated Transdermal Transport. ACS Applied Bio Materials, 2020, 3, 8395-8401.	4.6	5
84	Peptide Self-Assembly Is Linked to Antibacterial, but Not Antifungal, Activity of Histatin 5 Derivatives. MSphere, 2020, 5, .	2.9	5
85	Intrinsic Fluorescence of Metabolite Amyloids Allows Labelâ€“Free Monitoring of Their Formation and Dynamics in Live Cells. Angewandte Chemie, 2018, 130, 12624-12627.	2.0	4
86	Vesicle-Based Assays to Study Membrane Interactions of Amyloid Peptides. Methods in Molecular Biology, 2019, 1873, 39-51.	0.9	4
87	Visualization of Membrane Processes in Living Cells by Surfaceâ€“Attached Chromatic Polymer Patches. Angewandte Chemie, 2005, 117, 1116-1120.	2.0	3
88	Chromatic polymer assays for the analysis of lipid and lipoprotein peroxidation. Lipid Technology, 2015, 27, 86-89.	0.3	3
89	A Surface Study of Ultrathin Ceria Nanoparticles Decorated with Transitionâ€“Metal Ions. Particle and Particle Systems Characterization, 2019, 36, 1800452.	2.3	3
90	The cation diffusion facilitator protein MamM's cytoplasmic domain exhibits metal-type dependent binding modes and discriminates against Mn ²⁺ . Journal of Biological Chemistry, 2020, 295, 16614-16629.	3.4	3

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91	Membrane-Surface Anchoring of Charged Diacylglycerol-Lactones Correlates with Biological Activities. ChemBioChem, 2010, 11, 2003-2009.	2.6	2
92	The metal binding site composition of the cation diffusion facilitator protein MamM cytoplasmic domain impacts its metal responsivity. Scientific Reports, 2020, 10, 14022.	3.3	2
93	Imaging Flow Cytometry Illuminates New Dimensions of Amyloid Peptide-Membrane Interactions. Biophysical Journal, 2020, 118, 1270-1278.	0.5	2
94	Colorimetric Biosensor Vesicles for Biotechnological Applications. Materials Research Society Symposia Proceedings, 2002, 724, N7.23.1.	0.1	1
95	Inside Cover: Membrane-Surface Anchoring of Charged Diacylglycerol-Lactones Correlates with Biological Activities (ChemBioChem 14/2010). ChemBioChem, 2010, 11, 1926-1926.	2.6	0