

Sofiya Kolusheva

List of Publications by Year in descending order

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papers

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citations

101543

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99
docs citations

99
times ranked

5775
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromatic Dendrimer/Polydiacetylene Nanoparticles. ACS Applied Polymer Materials, 2021, 3, 2931-2937.	4.4	12
2	Ultrashort Cell-Penetrating Peptides for Enhanced Sonophoresis-Mediated Transdermal Transport. ACS Applied Bio Materials, 2020, 3, 8395-8401.	4.6	5
3	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
4	Peptide Self-Assembly Is Linked to Antibacterial, but Not Antifungal, Activity of Histatin 5 Derivatives. MSphere, 2020, 5, .	2.9	5
5	Imaging Flow Cytometry Illuminates New Dimensions of Amyloid Peptide-Membrane Interactions. Biophysical Journal, 2020, 118, 1270-1278.	0.5	2
6	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
7	Tyrosine carbon dots inhibit fibrillation and toxicity of the human islet amyloid polypeptide. Nanoscale Advances, 2020, 2, 5866-5873.	4.6	7
8	Structure and membrane-targeting of a Bordetella pertussis effector N-terminal domain. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 183054.	2.6	10
9	Highly-doped Nd:YAG ceramics fabricated by conventional and high pressure SPS. Ceramics International, 2019, 45, 12279-12284.	4.8	24
10	Metal binding to the dynamic cytoplasmic domain of the cation diffusion facilitator (CDF) protein MamM induces a "locked" configuration. FEBS Journal, 2019, 286, 2193-2215.	4.7	9
11	Selective Labeling and Growth Inhibition of <i>Pseudomonas aeruginosa</i> by Aminoguanidine Carbon Dots. ACS Infectious Diseases, 2019, 5, 292-302.	3.8	50
12	A Surface Study of Ultrathin Ceria Nanoparticles Decorated with Transition Metal Ions. Particle and Particle Systems Characterization, 2019, 36, 1800452.	2.3	3
13	Vesicle-Based Assays to Study Membrane Interactions of Amyloid Peptides. Methods in Molecular Biology, 2019, 1873, 39-51.	0.9	4
14	Cardiolipin mediates curcumin interactions with mitochondrial membranes. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 75-82.	2.6	11
15	Metabolite amyloid-like fibrils interact with model membranes. Chemical Communications, 2018, 54, 4561-4564.	4.1	20
16	Nanoparticles modulate membrane interactions of human Islet amyloid polypeptide (hIAPP). Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1810-1817.	2.6	11
17	Dynamics of Photoinduced Degradation of Perovskite Photovoltaics: From Reversible to Irreversible Processes. ACS Applied Energy Materials, 2018, 1, 799-806.	5.1	85
18	Understanding the Biomineralization Role of Magnetite-Interacting Components (MICs) From Magnetotactic Bacteria. Frontiers in Microbiology, 2018, 9, 2480.	3.5	21

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19	Intrinsic Fluorescence of Metabolite Amyloids Allows Label-Free Monitoring of Their Formation and Dynamics in Live Cells. <i>Angewandte Chemie</i> , 2018, 130, 12624-12627.	2.0	4
20	Lysine-Derived Carbon Dots for Chiral Inhibition of Prion Peptide Fibril Assembly. <i>Advanced Therapeutics</i> , 2018, 1, 1800006.	3.2	23
21	Chiral modulation of amyloid beta fibrillation and cytotoxicity by enantiomeric carbon dots. <i>Chemical Communications</i> , 2018, 54, 7762-7765.	4.1	95
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	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
24	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
25	Colorimetric Polydiacetylene-Aerogel Detector for Volatile Organic Compounds (VOCs). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2891-2898.	8.0	139
26	Self-assembling dipeptide antibacterial nanostructures with membrane disrupting activity. <i>Nature Communications</i> , 2017, 8, 1365.	12.8	299
27	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
28	Lipid-Bilayer Dynamics Probed by a Carbon Dot-Phospholipid Conjugate. <i>Biophysical Journal</i> , 2016, 110, 2016-2025.	0.5	31
29	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
30	Structure-function studies of the magnetite-biomineralizing magnetosome-associated protein MamC. <i>Journal of Structural Biology</i> , 2016, 194, 244-252.	2.8	40
31	Chromatic polymer assays for the analysis of lipid and lipoprotein peroxidation. <i>Lipid Technology</i> , 2015, 27, 86-89.	0.3	3
32	Colorimetric Polymer Assay for the Diagnosis of Plasma Lipids Atherogenic Quality in Hypercholesterolemic Patients. <i>Molecular Diagnosis and Therapy</i> , 2015, 19, 35-43.	3.8	6
33	Unilamellar Vesicles from Amphiphilic Graphene Quantum Dots. <i>Chemistry - A European Journal</i> , 2015, 21, 7755-7759.	3.3	16
34	Toxicity Inhibitors Protect Lipid Membranes from Disruption by $A\beta$. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1860-1869.	3.5	28
35	Green synthesis of gold nanoparticles using plant extracts as reducing agents. <i>International Journal of Nanomedicine</i> , 2014, 9, 4007.	6.7	209
36	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

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37	Poly(methyl methacrylate)-Supported Polydiacetylene Films: Unique Chromatic Transitions and Molecular Sensing. ACS Applied Materials & Interfaces, 2014, 6, 8613-8620.	8.0	70
38	Membrane analysis with amphiphilic carbon dots. Chemical Communications, 2014, 50, 10299-10302.	4.1	84
39	Cation Diffusion Facilitators Transport Initiation and Regulation Is Mediated by Cation Induced Conformational Changes of the Cytoplasmic Domain. PLoS ONE, 2014, 9, e92141.	2.5	41
40	Lipid Bilayers Significantly Modulate Cross-Fibrillation of Two Distinct Amyloidogenic Peptides. Journal of the American Chemical Society, 2013, 135, 13582-13589.	13.7	25
41	Aggregation of Oligoarginines at Phospholipid Membranes: Molecular Dynamics Simulations, Time-Dependent Fluorescence Shift, and Biomimetic Colorimetric Assays. Journal of Physical Chemistry B, 2013, 117, 11530-11540.	2.6	34
42	N-terminal aromatic residues closely impact the cytolytic activity of cupiennin 1a, a major spider venom peptide. Toxicon, 2013, 75, 177-186.	1.6	15
43	Bolaamphiphilic vesicles encapsulating iron oxide nanoparticles: New vehicles for magnetically targeted drug delivery. International Journal of Pharmaceutics, 2013, 450, 241-249.	5.2	26
44	Characterization of the N-Terminal Domain of BteA: A Bordetella Type III Secreted Cytotoxic Effector. PLoS ONE, 2013, 8, e55650.	2.5	5
45	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
46	A Novel "Reactomics" Approach for Cancer Diagnostics. Sensors, 2012, 12, 5572-5585.	3.8	5
47	Membrane interactions of ionic liquids: Possible determinants for biological activity and toxicity. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2967-2974.	2.6	102
48	Biofilm Formation on Chromatic Sol-Gel/Polydiacetylene Films. ChemPlusChem, 2012, 77, 752-757.	2.8	9
49	Polydiacetylene-supported silica films formed at the air/water interface. Journal of Colloid and Interface Science, 2011, 364, 428-434.	9.4	7
50	Some Phorbol Esters Might Partially Resemble Bryostatin 1 in their Actions on LNCaP Prostate Cancer Cells and U937 Leukemia Cells. ChemBioChem, 2011, 12, 1242-1251.	2.6	22
51	Methyl-Substituted Fluorescent DAG-Indololactone Isomers Exhibit Dramatic Differences in Membrane Interactions and Biological Activity. ChemBioChem, 2011, 12, 2331-2340.	2.6	9
52	Membrane-Surface Anchoring of Charged Diacylglycerol-Lactones Correlates with Biological Activities. ChemBioChem, 2010, 11, 2003-2009.	2.6	2
53	Inside Cover: Membrane-Surface Anchoring of Charged Diacylglycerol-Lactones Correlates with Biological Activities (ChemBioChem 14/2010). ChemBioChem, 2010, 11, 1926-1926.	2.6	0
54	Membrane anchoring of diacylglycerol lactones substituted with rigid hydrophobic acyl domains correlates with biological activities. FEBS Journal, 2010, 277, 233-243.	4.7	15

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55	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
56	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. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3274-3283.	6.4	8
57	Phospholipid-Induced Fibrillation of a Prion Amyloidogenic Determinant at the Air/Water Interface. <i>Langmuir</i> , 2009, 25, 12501-12506.	3.5	22
58	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
59	Lipoprotein interactions with chromatic membranes as a novel marker for oxidative stress-related diseases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2436-2443.	2.6	5
60	Pardaxin, a fish toxin peptide interaction with a biomimetic phospholipid/polydiacetylene membrane assay. <i>Peptides</i> , 2008, 29, 1620-1625.	2.4	30
61	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
62	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
63	Lipid/Polydiacetylene Films for Colorimetric Protein Surface-Charge Analysis. <i>Analytical Chemistry</i> , 2008, 80, 7804-7811.	6.5	28
64	Colorimetric Detection and Fingerprinting of Bacteria by Glass-Supported Lipid/Polydiacetylene Films. <i>Langmuir</i> , 2007, 23, 4682-4687.	3.5	69
65	Biomolecular Sensing with Colorimetric Vesicles. , 2007, , 155-180.		52
66	Glass-supported lipid/polydiacetylene films for colour sensing of membrane-active compounds. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3247-3251.	10.1	34
67	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
68	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
69	Rapid Colorimetric Screening of Drug Interaction and Penetration Through Lipid Barriers. <i>Pharmaceutical Research</i> , 2006, 23, 580-588.	3.5	48
70	Investigations of antimicrobial peptides in planar film systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1393-1407.	2.6	58
71	Imaging membrane processes in erythrocyte ghosts by surface fusion of a chromatic polymer. <i>Analytical Biochemistry</i> , 2006, 348, 151-153.	2.4	10
72	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

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73	Visualization of Membrane Processes in Living Cells by Surface-Attached Chromatic Polymer Patches. <i>Angewandte Chemie</i> , 2005, 117, 1116-1120.	2.0	3
74	Carbohydrate Biosensors. <i>ChemInform</i> , 2005, 36, no.	0.0	223
75	Membrane Interactions of Host-defense Peptides Studied in Model Systems. <i>Current Protein and Peptide Science</i> , 2005, 6, 103-114.	1.4	50
76	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
77	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
78	Structure-Activity Determinants in Paneth Cell α -Defensins. <i>Journal of Biological Chemistry</i> , 2004, 279, 11976-11983.	3.4	63
79	Carbohydrate Biosensors. <i>Chemical Reviews</i> , 2004, 104, 5987-6016.	47.7	337
80	Microscopic Visualization of Alamethicin Incorporation into Model Membrane Monolayers. <i>Langmuir</i> , 2004, 20, 11084-11091.	3.5	32
81	Detection and analysis of membrane interactions by a biomimetic colorimetric lipid/polydiacetylene assay. <i>Analytical Biochemistry</i> , 2003, 319, 96-104.	2.4	34
82	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
83	The Human Islet Amyloid Polypeptide Forms Transient Membrane-Active Prefibrillar Assemblies. <i>Biochemistry</i> , 2003, 42, 10971-10977.	2.5	168
84	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
85	Quantitative interactions between cryptdin-4 amino terminal variants and membranes. <i>Peptides</i> , 2003, 24, 1795-1805.	2.4	53
86	Biomimetic lipid/polymer colorimetric membranes. <i>Journal of Lipid Research</i> , 2003, 44, 65-71.	4.2	58
87	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
88	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
89	Colorimetric Biosensor Vesicles for Biotechnological Applications. <i>Materials Research Society Symposia Proceedings</i> , 2002, 724, N7.23.1.	0.1	1
90	Rapid Colorimetric Detection of Antibody-Epitope Recognition at a Biomimetic Membrane Interface. <i>Journal of the American Chemical Society</i> , 2001, 123, 417-422.	13.7	166

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91	A new colorimetric assay for studying and rapid screening of membrane penetration enhancers. <i>Pharmaceutical Research</i> , 2001, 18, 943-949.	3.5	47
92	Polymerized lipid vesicles as colorimetric biosensors for biotechnological applications. <i>Biotechnology Advances</i> , 2001, 19, 109-118.	11.7	124
93	A colorimetric assay for rapid screening of antimicrobial peptides. <i>Nature Biotechnology</i> , 2000, 18, 225-227.	17.5	209
94	Peptide-Membrane Interactions Studied by a New Phospholipid/Polydiacetylene Colorimetric Vesicle Assay. <i>Biochemistry</i> , 2000, 39, 15851-15859.	2.5	162
95	Cation-Selective Color Sensors Composed of Ionophore-Phospholipid-Polydiacetylene Mixed Vesicles. <i>Journal of the American Chemical Society</i> , 2000, 122, 776-780.	13.7	217