

Eva Y Chi

List of Publications by Year in descending order

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73
papers

4,080
citations

172457

29
h-index

128289

60
g-index

80
all docs

80
docs citations

80
times ranked

4912
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and Effective Inactivation of SARS-CoV-2 with a Cationic Conjugated Oligomer with Visible Light: Studies of Antiviral Activity in Solutions and on Supports. ACS Applied Materials & Interfaces, 2022, 14, 4892-4898.	8.0	6
2	Editorial: Amyloid-Membrane Interactions in Protein Misfolding Disorders: From Basic Mechanisms to Therapy. Frontiers in Cell and Developmental Biology, 2022, 10, 870791.	3.7	1
3	Controlled and Selective Photo-oxidation of Amyloid- β^2 Fibrils by Oligomeric <i>p</i> -Phenylene Ethynyls. ACS Applied Materials & Interfaces, 2022, 14, 14871-14886.	8.0	9
4	Tau and Membranes: Interactions That Promote Folding and Condensation. Frontiers in Cell and Developmental Biology, 2021, 9, 725241.	3.7	27
5	Understanding the Photochemical Properties of Polythiophene Polyelectrolyte Soft Aggregates with Sodium Dodecyl Sulfate for Antimicrobial Activity. ACS Applied Materials & Interfaces, 2021, 13, 55953-55965.	8.0	2
6	Passive Immunotherapies Targeting Amyloid Beta and Tau Oligomers in Alzheimer's Disease. Journal of Pharmaceutical Sciences, 2020, 109, 68-73.	3.3	25
7	Professors John F. Carpenter and Theodore W. Randolph: 2 Giants With a Special Synergy in the Field of Biopharmaceutical Science and Engineering. Journal of Pharmaceutical Sciences, 2020, 109, 2-5.	3.3	1
8	Highly Effective Inactivation of SARS-CoV-2 by Conjugated Polymers and Oligomers. ACS Applied Materials & Interfaces, 2020, 12, 55688-55695.	8.0	48
9	Lipid membrane templated misfolding and self-assembly of intrinsically disordered tau protein. Scientific Reports, 2020, 10, 13324.	3.3	32
10	Computational Investigation of the Binding Dynamics of Oligo <i>p</i> -Phenylene Ethynylene Fluorescence Sensors and $A\beta$ Oligomers. ACS Chemical Neuroscience, 2020, 11, 3761-3771.	3.5	4
11	Quantitative Determination of Dark and Light-Activated Antimicrobial Activity of Poly(Phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock Interfaces, 2020, 12, 21322-21329.	8.0	27
12	A Retrospective: 10 Years of Oligo(phenylene-ethynylene) Electrolytes: Demystifying Nanomaterials. Langmuir, 2019, 35, 307-325.	3.5	23
13	Membrane-mediated fibrillation and toxicity of the tau hexapeptide PHF6. Journal of Biological Chemistry, 2019, 294, 15304-15317.	3.4	43
14	Shiga Toxin Induces Lipid Compression: A Mechanism for Generating Membrane Curvature. Nano Letters, 2019, 19, 7365-7369.	9.1	26
15	Fibrillar and Nonfibrillar Amyloid Beta Structures Drive Two Modes of Membrane-Mediated Toxicity. Langmuir, 2019, 35, 16024-16036.	3.5	36
16	High Selectivity and Sensitivity of Oligomeric <i>p</i> -Phenylene Ethynyls for Detecting Fibrillar and Prefibrillar Amyloid Protein Aggregates. ACS Chemical Neuroscience, 2019, 10, 1813-1825.	3.5	29
17	Synchrotron X-Ray Scattering Studies to Determine Structure of Amyloid Beta Interactions with Lipid Membranes. Biophysical Journal, 2019, 116, 45a.	0.5	0
18	Controlled Photosensitizing Activity of Oligomeric P-Phenylene Ethynyls on Amyloid- β^2 Fibrils. Biophysical Journal, 2019, 116, 275a.	0.5	2

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19	Evaluating Photooxidation of Phospholipid Membranes by a Novel Switchable Photosensitizer. <i>Biophysical Journal</i> , 2019, 116, 443a.	0.5	0
20	Luminescent Molecular Sensors for the Selective Detection of Neurodegenerative Disease Protein Pathology in CSF. <i>Biophysical Journal</i> , 2019, 116, 146a-147a.	0.5	3
21	Effect of Amyloid Fibril Oxidation on its Seeding Potency. <i>Biophysical Journal</i> , 2019, 116, 276a.	0.5	0
22	Novel Sensors for Detecting Alzheimer's Disease Related Tau Protein Aggregates. <i>Biophysical Journal</i> , 2019, 116, 147a.	0.5	2
23	Computational Study of the Driving Forces and Dynamics of Curcumin Binding to Amyloid- β^2 Protofibrils. <i>Journal of Physical Chemistry B</i> , 2019, 123, 551-560.	2.6	21
24	Binding Behavior and Energetics between Curcumin and Amyloid- β^2 Aggregates at the Molecular Scale. <i>Biophysical Journal</i> , 2018, 114, 227a.	0.5	0
25	Novel Conformation Selective Molecular Sensors for Amyloid Aggregates. <i>Biophysical Journal</i> , 2018, 114, 20a-21a.	0.5	0
26	Enhanced Ordering in Monolayers Containing Glycosphingolipids: Impact of Carbohydrate Structure. <i>Biophysical Journal</i> , 2018, 114, 105a-106a.	0.5	0
27	Enhanced Ordering in Monolayers Containing Glycosphingolipids: Impact of Carbohydrate Structure. <i>Biophysical Journal</i> , 2018, 114, 1103-1115.	0.5	7
28	High Selectivity and Sensitivity of Oligomeric P-Phenylene Ethynylenes for Detecting Amyloid Proteins In-Vitro. <i>Biophysical Journal</i> , 2018, 114, 358a.	0.5	1
29	Phenylene Ethynylene Based Sensors for the Selective Detection of TAU Pathology. <i>Biophysical Journal</i> , 2018, 114, 357a.	0.5	0
30	Detergent-induced self-assembly and controllable photosensitizer activity of diester phenylene ethynylenes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7278-7282.	7.1	23
31	Substituent, Charge, and Size Effects on the Fluorogenic Performance of Amyloid Ligands: A Small-Library Screening Study. <i>ACS Omega</i> , 2017, 2, 3192-3200.	3.5	19
32	Binding-Activated Superradiant Probes for Amyloid in Solution and Tissue. <i>Biophysical Journal</i> , 2016, 110, 554a.	0.5	1
33	Oligomeric Conjugated Polyelectrolytes Display Site-Preferential Binding to an MS2 Viral Capsid. <i>Langmuir</i> , 2016, 32, 12542-12551.	3.5	11
34	Curcumin Attenuates Amyloid- β^2 Aggregate Toxicity and Modulates Amyloid- β^2 Aggregation Pathway. <i>ACS Chemical Neuroscience</i> , 2016, 7, 56-68.	3.5	134
35	X-ray reflectivity and grazing incidence diffraction studies of interaction between human adhesion/growth-regulatory galectin-1 and DPPE-GM1 lipid monolayer at an air/water interface. <i>Biochemistry (Moscow)</i> , 2015, 80, 943-956.	1.5	13
36	Biflavonoids as Potential Small Molecule Therapeutics for Alzheimer's Disease. <i>Advances in Experimental Medicine and Biology</i> , 2015, 863, 55-77.	1.6	31

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37	Oligo(<i>p</i> -phenylene ethynylene) Electrolytes: A Novel Molecular Scaffold for Optical Tracking of Amyloids. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1526-1535.	3.5	30
38	Effect of detergents on the thermal behavior of elastin-like polypeptides. <i>Biopolymers</i> , 2013, 99, 55-62.	2.4	12
39	When Worlds Collide: Interactions at the Interface between Biological Systems and Synthetic Cationic Conjugated Polyelectrolytes and Oligomers. <i>Langmuir</i> , 2013, 29, 10635-10647.	3.5	52
40	Understanding the Dark and Light-Enhanced Bactericidal Action of Cationic Conjugated Polyelectrolytes and Oligomers. <i>Langmuir</i> , 2013, 29, 781-792.	3.5	86
41	Membrane-Mediated Neuroprotection by Curcumin from Amyloid- β -Peptide-Induced Toxicity. <i>Langmuir</i> , 2013, 29, 11713-11723.	3.5	54
42	Antimicrobial Activity of Cationic Conjugated Polyelectrolytes and Oligomers against <i>Saccharomyces cerevisiae</i> Vegetative Cells and Ascospores. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4555-4561.	8.0	30
43	Interaction of Tau Protein with Model Lipid Membranes Induces Tau Structural Compaction and Membrane Disruption. <i>Biochemistry</i> , 2012, 51, 2539-2550.	2.5	122
44	Direct Visualization of Bactericidal Action of Cationic Conjugated Polyelectrolytes and Oligomers. <i>Langmuir</i> , 2012, 28, 65-70.	3.5	93
45	Membrane activity of antimicrobial phenylene ethynylene based polymers and oligomers. <i>Soft Matter</i> , 2012, 8, 8547.	2.7	63
46	Tuning Membrane Mechanics with Glycerol Adlayers. <i>Biophysical Journal</i> , 2012, 102, 647a.	0.5	0
47	Cationic Phenylene Ethynylene Polymers and Oligomers Exhibit Efficient Antiviral Activity. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2209-2214.	8.0	67
48	Effect of Polymer Chain Length on Membrane Perturbation Activity of Cationic Phenylene Ethynylene Oligomers and Polymers. <i>Langmuir</i> , 2011, 27, 10770-10775.	3.5	42
49	Glycerol-Induced Membrane Stiffening: The Role of Viscous Fluid Adlayers. <i>Biophysical Journal</i> , 2011, 101, 118-127.	0.5	35
50	Engineering of a redox protein for DNA-directed assembly. <i>Chemical Communications</i> , 2011, 47, 7464.	4.1	6
51	Biflavonoids Are Superior to Monoflavonoids in Inhibiting Amyloid- β Toxicity and Fibrillogenesis via Accumulation of Nontoxic Oligomer-like Structures. <i>Biochemistry</i> , 2011, 50, 2445-2455.	2.5	95
52	Dark Antimicrobial Mechanisms of Cationic Phenylene Ethynylene Polymers and Oligomers against <i>Escherichia coli</i> . <i>Polymers</i> , 2011, 3, 1199-1214.	4.5	41
53	Amyloid- β Fibrillogenesis Seeded by Interface-Induced Peptide Misfolding and Self-Assembly. <i>Biophysical Journal</i> , 2010, 98, 2299-2308.	0.5	48
54	Insight into the Mechanism of Antimicrobial Conjugated Polyelectrolytes: Lipid Headgroup Charge and Membrane Fluidity Effects. <i>Langmuir</i> , 2010, 26, 5544-5550.	3.5	71

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55	Lipid-Membrane Mediated Tau Misfolding and Aggregation. <i>Biophysical Journal</i> , 2010, 98, 239a-240a.	0.5	0
56	Membrane Perturbation Activity of Cationic Phenylene Ethynylene Oligomers and Polymers: Selectivity against Model Bacterial and Mammalian Membranes. <i>Langmuir</i> , 2010, 26, 12509-12514.	3.5	72
57	Ordered Nanoclusters in Lipid-Cholesterol Membranes. <i>Physical Review Letters</i> , 2009, 103, 028103.	7.8	44
58	Insight into the Mechanism of Antimicrobial Poly(phenylene ethynylene) Polyelectrolytes: Interactions with Phosphatidylglycerol Lipid Membranes— <i>Langmuir</i> 25th Year: Molecular and macromolecular self-assemblies. <i>Langmuir</i> , 2009, 25, 13742-13751.	3.5	52
59	X-Ray Diffraction and Reflectivity Validation of the Depletion Attraction in the Competitive Adsorption of Lung Surfactant and Albumin. <i>Biophysical Journal</i> , 2009, 97, 777-786.	0.5	25
60	Air/water Interface Induced Folding And Self-assembly Of Amyloid-beta Peptide. <i>Biophysical Journal</i> , 2009, 96, 568a-569a.	0.5	0
61	Condensing And Fluidizing Effects Of Structurally Related Gangliosides On Phospholipid Films. <i>Biophysical Journal</i> , 2009, 96, 449a.	0.5	0
62	Lipid membrane templates the ordering and induces the fibrillogenesis of Alzheimer's disease amyloid β peptide. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 1-24.	2.6	131
63	Condensing and Fluidizing Effects of Ganglioside GM1 on Phospholipid Films. <i>Biophysical Journal</i> , 2008, 94, 3047-3064.	0.5	68
64	Competitive Adsorption of Lung Surfactant and Serum Proteins at the Air-Liquid Interface: A Grazing Incidence X-Ray Diffraction Study. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1027, 1.	0.1	0
65	Ganglioside GM1-Mediated Amyloid-beta Fibrillogenesis and Membrane Disruption. <i>Biochemistry</i> , 2007, 46, 1913-1924.	2.5	78
66	Heterogeneous Nucleation-Controlled Particulate Formation of Recombinant Human Platelet-Activating Factor Acetylhydrolase in Pharmaceutical Formulation. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 256-274.	3.3	93
67	Population balance modeling of aggregation kinetics of recombinant human interleukin-1 receptor antagonist. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 2735-2748.	3.3	22
68	Physical stability of proteins in aqueous solution: mechanism and driving forces in nonnative protein aggregation. <i>Pharmaceutical Research</i> , 2003, 20, 1325-1336.	3.5	1,179
69	Oxidative Dimer Formation Is the Critical Rate-Limiting Step for Parkinson's Disease α -Synuclein Fibrillogenesis. <i>Biochemistry</i> , 2003, 42, 829-837.	2.5	186
70	Roles of conformational stability and colloidal stability in the aggregation of recombinant human granulocyte colony-stimulating factor. <i>Protein Science</i> , 2003, 12, 903-913.	7.6	311
71	Aggregation of Granulocyte Colony Stimulating Factor under Physiological Conditions: Δ Characterization and Thermodynamic Inhibition. <i>Biochemistry</i> , 2002, 41, 6422-6431.	2.5	175
72	Counteracting Effects of Renal Solutes on Amyloid Fibril Formation by Immunoglobulin Light Chains. <i>Journal of Biological Chemistry</i> , 2001, 276, 1626-1633.	3.4	81

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73	Leveraging Students' Funds of Knowledge in Chemical Engineering Design Challenges Supports Persistence Intentions. Journal of Chemical Education, 0, , .	2.3	0