Eva Y Chi

List of Publications by Year
in descending order

73	4,080	172457	128289
papers	citations	29 h-index	60 g-index

80	80	80	4912
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physical stability of proteins in aqueous solution: mechanism and driving forces in nonnative protein aggregation. Pharmaceutical Research, 2003, 20, 1325-1336.	3.5	1,179
2	Roles of conformational stability and colloidal stability in the aggregation of recombinant human granulocyte colony-stimulating factor. Protein Science, 2003, 12, 903-913.	7.6	311
3	Oxidative Dimer Formation Is the Critical Rate-Limiting Step for Parkinson's Disease Î±-Synuclein Fibrillogenesisâ€. Biochemistry, 2003, 42, 829-837.	2.5	186
4	Aggregation of Granulocyte Colony Stimulating Factor under Physiological Conditions:Â Characterization and Thermodynamic Inhibitionâ€. Biochemistry, 2002, 41, 6422-6431.	2.5	175
5	Curcumin Attenuates Amyloid-Î² Aggregate Toxicity and Modulates Amyloid-Î² Aggregation Pathway. ACS Chemical Neuroscience, 2016, 7, 56-68.	3.5	134
6	Lipid membrane templates the ordering and induces the fibrillogenesis of Alzheimer's disease amyloidâ€Î² peptide. Proteins: Structure, Function and Bioinformatics, 2008, 72, 1-24.	2.6	131
7	Interaction of Tau Protein with Model Lipid Membranes Induces Tau Structural Compaction and Membrane Disruption. Biochemistry, 2012, 51, 2539-2550.	2.5	122
8	Biflavonoids Are Superior to Monoflavonoids in Inhibiting Amyloid-Î² Toxicity and Fibrillogenesis via Accumulation of Nontoxic Oligomer-like Structures. Biochemistry, 2011, 50, 2445-2455.	2.5	95
9	Heterogeneous Nucleation-Controlled Particulate Formation of Recombinant Human Platelet-Activating Factor Acetylhydrolase in Pharmaceutical Formulation. Journal of Pharmaceutical Sciences, 2005, 94, 256-274.	3.3	93
10	Direct Visualization of Bactericidal Action of Cationic Conjugated Polyelectrolytes and Oligomers. Langmuir, 2012, 28, 65-70.	3.5	93
11	Understanding the Dark and Light-Enhanced Bactericidal Action of Cationic Conjugated Polyelectrolytes and Oligomers. Langmuir, 2013, 29, 781-792.	3.5	86
12	Counteracting Effects of Renal Solutes on Amyloid Fibril Formation by Immunoglobulin Light Chains. Journal of Biological Chemistry, 2001, 276, 1626-1633.	3.4	81
13	Ganglioside GM1-Mediated Amyloid-beta Fibrillogenesis and Membrane Disruption. Biochemistry, 2007, 46, 1913-1924.	2.5	78
14	Membrane Perturbation Activity of Cationic Phenylene Ethynylene Oligomers and Polymers: Selectivity against Model Bacterial and Mammalian Membranes. Langmuir, 2010, 26, 12509-12514.	3.5	72
15	Insight into the Mechanism of Antimicrobial Conjugated Polyelectrolytes: Lipid Headgroup Charge and Membrane Fluidity Effects. Langmuir, 2010, 26, 5544-5550.	3.5	71
16	Condensing and Fluidizing Effects of Ganglioside GM1 on Phospholipid Films. Biophysical Journal, 2008, 94, 3047-3064.	0.5	68
17	Cationic Phenylene Ethynylene Polymers and Oligomers Exhibit Efficient Antiviral Activity. ACS Applied Materials & Interfaces, 2011, 3, 2209-2214.	8.0	67
18	Membrane activity of antimicrobial phenylene ethynylene based polymers and oligomers. Soft Matter, 2012, 8, 8547.	2.7	63

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19	Membrane-Mediated Neuroprotection by Curcumin from Amyloid-Î²-Peptide-Induced Toxicity. Langmuir, 2013, 29, 11713-11723.	3.5	54
20	Insight into the Mechanism of Antimicrobial Poly(phenylene ethynylene) Polyelectrolytes: Interactions with Phosphatidylglycerol Lipid Membranesâ€Langmuir 25th Year: Molecular and macromolecular self-assemblies. Langmuir, 2009, 25, 13742-13751.	3.5	52
21	When Worlds Collide: Interactions at the Interface between Biological Systems and Synthetic Cationic Conjugated Polyelectrolytes and Oligomers. Langmuir, 2013, 29, 10635-10647.	3.5	52
22	Amyloid-Î² Fibrillogenesis Seeded by Interface-Induced Peptide Misfolding and Self-Assembly. Biophysical Journal, 2010, 98, 2299-2308.	0.5	48
23	Highly Effective Inactivation of SARS-CoV-2 by Conjugated Polymers and Oligomers. ACS Applied Materials & Interfaces, 2020, 12, 55688-55695.	8.0	48
24	Ordered Nanoclusters in Lipid-Cholesterol Membranes. Physical Review Letters, 2009, 103, 028103.	7.8	44
25	Membrane-mediated fibrillation and toxicity of the tau hexapeptide PHF6. Journal of Biological Chemistry, 2019, 294, 15304-15317.	3.4	43
26	Effect of Polymer Chain Length on Membrane Perturbation Activity of Cationic Phenylene Ethynylene Oligomers and Polymers. Langmuir, 2011, 27, 10770-10775.	3.5	42
27	Dark Antimicrobial Mechanisms of Cationic Phenylene Ethynylene Polymers and Oligomers against Escherichia coli. Polymers, 2011, 3, 1199-1214.	4.5	41
28	Fibrillar and Nonfibrillar Amyloid Beta Structures Drive Two Modes of Membrane-Mediated Toxicity. Langmuir, 2019, 35, 16024-16036.	3.5	36
29	Glycerol-Induced Membrane Stiffening: The Role of Viscous Fluid Adlayers. Biophysical Journal, 2011, 101, 118-127.	0.5	35
30	Lipid membrane templated misfolding and self-assembly of intrinsically disordered tau protein. Scientific Reports, 2020, 10, 13324.	3.3	32
31	Biflavonoids as Potential Small Molecule Therapeutics for Alzheimerâ€™s Disease. Advances in Experimental Medicine and Biology, 2015, 863, 55-77.	1.6	31
32	Antimicrobial Activity of Cationic Conjugated Polyelectrolytes and Oligomers against Saccharomyces cerevisiae Vegetative Cells and Ascospores. ACS Applied Materials & Interfaces, 2013, 5, 4555-4561.	8.0	30
33	Oligo(p-phenylene ethynylene) Electrolytes: A Novel Molecular Scaffold for Optical Tracking of Amyloids. ACS Chemical Neuroscience, 2015, 6, 1526-1535.	3.5	30
34	High Selectivity and Sensitivity of Oligomeric p-Phenylene Ethynylenes for Detecting Fibrillar and Prefibrillar Amyloid Protein Aggregates. ACS Chemical Neuroscience, 2019, 10, 1813-1825.	3.5	29
35	Quantitative Determination of Dark and Light-Activated Antimicrobial Activity of Poly(Phenylene) Tj ETQq1 1 0.784314 rgBT /Overloc Interfaces, 2020, 12, 21322-21329.	8.0	27
36	Tau and Membranes: Interactions That Promote Folding and Condensation. Frontiers in Cell and Developmental Biology, 2021, 9, 725241.	3.7	27

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37	Shiga Toxin Induces Lipid Compression: A Mechanism for Generating Membrane Curvature. Nano Letters, 2019, 19, 7365-7369.	9.1	26
38	X-Ray Diffraction and Reflectivity Validation of the Depletion Attraction in the Competitive Adsorption of Lung Surfactant and Albumin. Biophysical Journal, 2009, 97, 777-786.	0.5	25
39	Passive Immunotherapies Targeting Amyloid Beta and Tau Oligomers in Alzheimerâ€™s Disease. Journal of Pharmaceutical Sciences, 2020, 109, 68-73.	3.3	25
40	Detergent-induced self-assembly and controllable photosensitizer activity of diester phenylene ethynylenes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7278-7282.	7.1	23
41	A Retrospective: 10 Years of Oligo(phenylene-ethynylene) Electrolytes: Demystifying Nanomaterials. Langmuir, 2019, 35, 307-325.	3.5	23
42	Population balance modeling of aggregation kinetics of recombinant human interleukin-1 receptor antagonist. Journal of Pharmaceutical Sciences, 2005, 94, 2735-2748.	3.3	22
43	Computational Study of the Driving Forces and Dynamics of Curcumin Binding to Amyloid-Î² Protofibrils. Journal of Physical Chemistry B, 2019, 123, 551-560.	2.6	21
44	Substituent, Charge, and Size Effects on the Fluorogenic Performance of Amyloid Ligands: A Small-Library Screening Study. ACS Omega, 2017, 2, 3192-3200.	3.5	19
45	X-ray reflectivity and grazing incidence diffraction studies of interaction between human adhesion/growth-regulatory galectin-1 and DPPEâ€”GM1 lipid monolayer at an air/water interface. Biochemistry (Moscow), 2015, 80, 943-956.	1.5	13
46	Effect of detergents on the thermal behavior of elastinâ€like polypeptides. Biopolymers, 2013, 99, 55-62.	2.4	12
47	Oligomeric Conjugated Polyelectrolytes Display Site-Preferential Binding to an MS2 Viral Capsid. Langmuir, 2016, 32, 12542-12551.	3.5	11
48	Controlled and Selective Photo-oxidation of Amyloid-Î² Fibrils by Oligomeric p-Phenylene Ethynylenes. ACS Applied Materials & Interfaces, 2022, 14, 14871-14886.	8.0	9
49	Enhanced Ordering in Monolayers Containing Glycosphingolipids: Impact of Carbohydrate Structure. Biophysical Journal, 2018, 114, 1103-1115.	0.5	7
50	Engineering of a redox protein for DNA-directed assembly. Chemical Communications, 2011, 47, 7464.	4.1	6
51	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
52	Computational Investigation of the Binding Dynamics of Oligo p-Phenylene Ethynylene Fluorescence Sensors and Aî² Oligomers. ACS Chemical Neuroscience, 2020, 11, 3761-3771.	3.5	4
53	Luminescent Molecular Sensors for the Selective Detection of Neurodegenerative Disease Protein Pathology in CSF. Biophysical Journal, 2019, 116, 146a-147a.	0.5	3
54	Controlled Photosensitizing Activity of Oligomeric P-Phenylene Ethynylenes on Amyloid-Î² Fibrils. Biophysical Journal, 2019, 116, 275a.	0.5	2

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55	Novel Sensors for Detecting Alzheimer's Disease Related Tau Protein Aggregates. Biophysical Journal, 2019, 116, 147a.	0.5	2
56	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
57	Binding-Activated Superradiant Probes for Amyloid in Solution and Tissue. Biophysical Journal, 2016, 110, 554a.	0.5	1
58	High Selectivity and Sensitivity of Oligomeric P-Phenylene Ethynylenes for Detecting Amyloid Proteins In-Vitro. Biophysical Journal, 2018, 114, 358a.	0.5	1
59	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
60	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
61	Competitive Adsorption of Lung Surfactant and Serum Proteins at the Air-Liquid Interface: A Grazing Incidence X-Ray Diffraction Study. Materials Research Society Symposia Proceedings, 2007, 1027, 1.	0.1	0
62	Air/water Interface Induced Folding And Self-assembly Of Amyloid-beta Peptide. Biophysical Journal, 2009, 96, 568a-569a.	0.5	0
63	Condensing And Fluidizing Effects Of Structurally Related Gangliosides On Phospholipid Films. Biophysical Journal, 2009, 96, 449a.	0.5	0
64	Lipid-Membrane Mediated Tau Misfolding and Aggregation. Biophysical Journal, 2010, 98, 239a-240a.	0.5	0
65	Tuning Membrane Mechanics with Glycerol Adlayers. Biophysical Journal, 2012, 102, 647a.	0.5	0
66	Binding Behavior and Energetics between Curcumin and Amyloid-Î² Aggregates at the Molecular Scale. Biophysical Journal, 2018, 114, 227a.	0.5	0
67	Novel Conformation Selective Molecular Sensors for Amyloid Aggregates. Biophysical Journal, 2018, 114, 20a-21a.	0.5	0
68	Enhanced Ordering in Monolayers Containing Glycosphingolipids: Impact of Carbohydrate Structure. Biophysical Journal, 2018, 114, 105a-106a.	0.5	0
69	Phenylene Ethynylene Based Sensors for the Selective Detection of TAU Pathology. Biophysical Journal, 2018, 114, 357a.	0.5	0
70	Synchrotron X-Ray Scattering Studies to Determine Structure of Amyloid Beta Interactions with Lipid Membranes. Biophysical Journal, 2019, 116, 45a.	0.5	0
71	Evaluating Photooxidation of Phospholipid Membranes by a Novel Switchable Photosenstizer. Biophysical Journal, 2019, 116, 443a.	0.5	0
72	Effect of Amyloid Fibril Oxidation on its Seeding Potency. Biophysical Journal, 2019, 116, 276a.	0.5	0

#	Article	IF	Citations
73	Leveraging Studentsâ€™ Funds of Knowledge in Chemical Engineering Design Challenges Supports Persistence Intentions. Journal of Chemical Education, 0, , .	2.3	0