

Holly A Stretz

List of Publications by Year in descending order

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37
papers

1,024
citations

516710

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414414

32
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all docs

37
docs citations

37
times ranked

1413
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Egyptian Blue and mechanisms. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110738.	4.0	6
2	Method for determining frequency dependent thermomechanical behavior of polymer films at cryogenic temperatures. <i>Cryogenics</i> , 2021, 114, 103236.	1.7	1
3	Design, synthesis, and characterization of vinyl-addition polynorbornenes with tunable thermal properties. <i>Polymer Chemistry</i> , 2021, 12, 5831-5841.	3.9	9
4	Superposition-based predictions of creep for polymer films at cryogenic temperatures. <i>Cryogenics</i> , 2019, 104, 102979.	1.7	4
5	Understanding Collaborative Effects between the Polymer Gel Structure and the Applied Electrical Field in Gel Electrophoresis Separation. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-15.	2.7	1
6	Supramolecular architectures of natural organic matter. <i>Science of the Total Environment</i> , 2019, 671, 1125-1133.	8.0	37
7	Role of compatibilizer in 3D printing of polymer blends. <i>Additive Manufacturing</i> , 2019, 27, 267-277.	3.0	23
8	Core-size regulated aggregation/disaggregation of citrate-coated gold nanoparticles (50 nm) and dissolved organic matter: Extinction, emission, and scattering evidence. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 415-426.	3.9	13
9	Extinction, emission, and scattering spectroscopy of 50 nm citrate-coated gold nanoparticles: An argument for curvature effects on aggregation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 175, 100-109.	3.9	25
10	High throughput fiber reactor process for organic nanoparticle production: Poly(N-isopropylacrylamide), polyacrylamide, and alginate. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45524.	2.6	2
11	Investigation of UV/H ₂ O ₂ pretreatment effects on humic acid fouling on polysulfone/titanium dioxide and polysulfone/multiwall carbon nanotube Nanocomposite ultrafiltration membranes. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 27-37.	2.3	11
12	CHOOSING THE OPTIMAL GEL MORPHOLOGY IN ELECTROPHORESIS SEPARATION BY A DIFFERENTIAL EVOLUTION APPROACH (DEA). <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 123-131.	1.3	1
13	Humic acid disaggregation with/of gold nanoparticles: Effects of nanoparticle size and pH. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2016, 6, 54-63.	2.9	16
14	Effects of a dual nanofiller, nano-TiO ₂ and MWCNT, for polysulfone-based nanocomposite membranes for water purification. <i>Desalination</i> , 2015, 372, 47-56.	8.2	108
15	Assessing Performance of Irregular Microvoids in Electrophoresis Separations. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10434-10441.	3.7	4
16	Gas expanded polymer process to anneal nanoparticle dispersion in thin films. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 101-107.	6.2	4
17	Comparing humic acid and protein fouling on polysulfone ultrafiltration membranes: Adsorption and reversibility. <i>Journal of Water Process Engineering</i> , 2015, 6, 83-92.	5.6	33
18	Abiotic reversible self-assembly of fulvic and humic acid aggregates in low electrolytic conductivity solutions by dynamic light scattering and zeta potential investigation. <i>Science of the Total Environment</i> , 2015, 537, 81-92.	8.0	74

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19	Aggregates of PCBM molecules: A computational study. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 225-231.	1.5	6
20	Effect of addition of montmorillonite and carbon nanotubes on a thermoplastic polyurethane: High temperature thermomechanical properties. <i>Polymer Degradation and Stability</i> , 2014, 102, 160-169.	5.8	14
21	Analyzing ablative and combustion characteristics of thermoplastic polyurethane nanocomposites. , 2013, , .		4
22	Emerging Pollutants – Part II: Treatment. <i>Water Environment Research</i> , 2013, 85, 2022-2071.	2.7	9
23	Tuning the magneto-optic response of maghemite doped poly(phenylmethylvinyl siloxane) through electric field based nanoparticle orientation. <i>Optical Materials Express</i> , 2012, 2, 864.	3.0	0
24	High-Temperature Flammability and Mechanical Properties of Thermoplastic Polyurethane Nanocomposites. <i>ACS Symposium Series</i> , 2012, , 343-360.	0.5	3
25	Effect of magnetization on the gel structure and protein electrophoresis in polyacrylamide hydrogel nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 126, 1600-1612.	2.6	8
26	Preliminary Observations of the Role of Material Morphology on Protein-Electrophoretic Transport in Gold Nanocomposite Hydrogels. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12104-12110.	3.7	6
27	Organo-montmorillonite barrier layers formed by combustion: Nanostructure and permeability. <i>Applied Clay Science</i> , 2010, 49, 213-223.	5.2	7
28	Role of Nanocomposite Hydrogel Morphology in the Electrophoretic Separation of Biomolecules: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11866-11877.	3.7	33
29	Evaluating Aggregation of Gold Nanoparticles and Humic Substances Using Fluorescence Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 7531-7535.	10.0	70
30	Gold Nanoparticle Deposition Using CO ₂ Expanded Liquids: Effect of Pressure Oscillation and Surface-Particle Interactions. <i>Langmuir</i> , 2008, 24, 12241-12246.	3.5	3
31	Mechanically robust nanoparticle stabilized transparent liquid marbles. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	127
32	Properties and morphology of nanocomposites based on styrenic polymers. Part I: Styrene-acrylonitrile copolymers. <i>Polymer</i> , 2006, 47, 8123-8136.	3.8	32
33	Properties and morphology of nanocomposites based on styrenic polymers, Part II: Effects of maleic anhydride units. <i>Polymer</i> , 2006, 47, 8527-8535.	3.8	21
34	Poly(styrene-co-acrylonitrile)/montmorillonite organoclay mixtures: a model system for ABS nanocomposites. <i>Polymer</i> , 2005, 46, 3818-3830.	3.8	89
35	Intercalation and exfoliation relationships in melt-processed poly(styrene-co-acrylonitrile)/montmorillonite nanocomposites. <i>Polymer</i> , 2005, 46, 2621-2637.	3.8	94
36	Solid state NMR characterization and flammability of styrene-acrylonitrile copolymer montmorillonite nanocomposite. <i>Polymer</i> , 2004, 45, 7627-7638.	3.8	96

#	ARTICLE	IF	CITATIONS
37	Epoxy-toughened, unsaturated polyester interpenetrating networks. Journal of Applied Polymer Science, 2002, 84, 2283-2286.	2.6	30