

Jeffrey A Fagan

List of Publications by Year in descending order

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papers

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94269

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95
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4587
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#	ARTICLE	IF	CITATIONS
1	Colloid-like solution behavior of computationally designed coiled coil bundlemers. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1974-1982.	5.0	3
2	Dependence of Single-Wall Carbon Nanotube Alignment on the Filter Membrane Interface in Slow Vacuum Filtration. <i>Small</i> , 2022, 18, e2105619.	5.2	5
3	Surfactant chemistry and polymer choice affect single-wall carbon nanotube extraction conditions in aqueous two-polymer phase extraction. <i>Carbon</i> , 2022, 191, 215-226.	5.4	12
4	Versailles project on advanced materials and standards (VAMAS) interlaboratory study on measuring the number concentration of colloidal gold nanoparticles. <i>Nanoscale</i> , 2022, 14, 4690-4704.	2.8	15
5	Computational Design of Homotetrameric Peptide Bundle Variants Spanning a Wide Range of Charge States. <i>Biomacromolecules</i> , 2022, 23, 1652-1661.	2.6	3
6	(Invited, Digital Presentation) Determining Surfactant Layer Composition on an (n,m) SWCNT at Extraction Conditions in Aqueous Two-Phase Extraction. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 735-735.	0.0	0
7	Selective filling of n-hexane in a tight nanopore. <i>Nature Communications</i> , 2021, 12, 310.	5.8	21
8	Polyvinyl acetate-based polymer host for optical and far-infrared spectroscopy of individualized nanoparticles. <i>Journal of Applied Physics</i> , 2021, 129, 034701.	1.1	2
9	(Invited) Determining Surfactant Concentrations for Separation of (n,m) Chirality Swcnts in ATPE via Fluorescence Detection. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 544-544.	0.0	0
10	(Invited) Molecularly Selective Filling of a Tight Nanotube Pore. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 590-590.	0.0	0
11	Tuning Net Charge in Aliphatic Polycarbonates Alters Solubility and Protein Complexation Behavior. <i>ACS Omega</i> , 2021, 6, 22589-22602.	1.6	2
12	Optical Property Tuning of Single-Wall Carbon Nanotubes by Endohedral Encapsulation of a Wide Variety of Dielectric Molecules. <i>ACS Nano</i> , 2021, 15, 2301-2317.	7.3	24
13	Separation of Specific Single-Enantiomer Single-Wall Carbon Nanotubes in the Large-Diameter Regime. <i>ACS Nano</i> , 2020, 14, 948-963.	7.3	75
14	Brightly Luminescent CsPbBr ₃ Nanocrystals through Ultracentrifugation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7133-7140.	2.1	13
15	DNA-directed nanofabrication of high-performance carbon nanotube field-effect transistors. <i>Science</i> , 2020, 368, 878-881.	6.0	99
16	Precise pitch-scaling of carbon nanotube arrays within three-dimensional DNA nanotrenches. <i>Science</i> , 2020, 368, 874-877.	6.0	97
17	Bright Silicon Nanocrystals from a Liquid Precursor: Quasi-Direct Recombination with High Quantum Yield. <i>ACS Nano</i> , 2020, 14, 3858-3867.	7.3	43
18	Near-infrared fluorescence as a method for determining single-wall carbon nanotube extraction conditions in aqueous two polymer phase extraction. <i>Carbon</i> , 2020, 165, 196-203.	5.4	12

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19	Improved Electrophoretic Deposition of Vertical Single Wall Carbon Nanotubes with Nanoscopic Electrostatic Lenses. <i>Micromachines</i> , 2020, 11, 324.	1.4	4
20	(Invited) DNA-Directed High-Precision Assembly of CNT FETs. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 685-685.	0.0	0
21	(Invited) Determining SWCNT Partition Conditions in Aqueous Two-Polymer Phase Extraction Via Near-Infrared Fluorescence Spectroscopy. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 665-665.	0.0	0
22	Aqueous two-polymer phase extraction of single-wall carbon nanotubes using surfactants. <i>Nanoscale Advances</i> , 2019, 1, 3307-3324.	2.2	58
23	Global Alignment of Solution-Based Single-Wall Carbon Nanotube Films via Machine-Vision Controlled Filtration. <i>Nano Letters</i> , 2019, 19, 7256-7264.	4.5	18
24	Structural insights into DNA-stabilized silver clusters. <i>Soft Matter</i> , 2019, 15, 4284-4293.	1.2	9
25	Defect Evolution of Ion-Exposed Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2496-2505.	1.5	4
26	(Invited) Purification Using Atppe to Single (n,m) Species in the Large Diameter Single-Wall Carbon Nanotube Limit. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
27	(Invited) Controlling the Inner Dielectric Environment of Carbon Nanotubes to Tune Their Optical Properties. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
28	Alkane Encapsulation Induces Strain in Small-Diameter Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11577-11585.	1.5	11
29	A radial calibration window for analytical ultracentrifugation. <i>PLoS ONE</i> , 2018, 13, e0201529.	1.1	8
30	Nanoparticle Manufacturing $\hat{\epsilon}^{\epsilon}$ Heterogeneity through Processes to Products. <i>ACS Applied Nano Materials</i> , 2018, 1, 4358-4385.	2.4	68
31	Self-assembly and soluble aggregate behavior of computationally designed coiled-coil peptide bundles. <i>Soft Matter</i> , 2018, 14, 5488-5496.	1.2	19
32	(Invited) Endohedral Filling Effects for Single-Wall Carbon Nanotubes As a Function of Filler Molecule and Nanotube Size. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
33	Performance Study of Free-Standing Cathode Made with LiFePO ₄ and Sorted Single-Walled Carbon Nanotubes Composite Material. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
34	A Low Energy Route to DNA-Wrapped Carbon Nanotubes via Replacement of Bile Salt Surfactants. <i>Analytical Chemistry</i> , 2017, 89, 10496-10503.	3.2	40
35	Effect of Sorted Metallic and Semiconducting Single-Walled Carbon Nanotubes on LiFePO ₄ Cathode Material for Lithium Ion Batteries. <i>ECS Transactions</i> , 2017, 80, 267-274.	0.3	4
36	(Invited) Modulation of Nanotube Optical Properties By Controlling the Dielectric Environment inside of Single-Wall Carbon Nanotubes. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0

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37	Effect of Sorted Single-Walled Carbon Nanotubes on Rate Capability of Lithium-Ion Battery Cathodes. ECS Meeting Abstracts, 2017, , .	0.0	0
38	Differentiating Left- and Right-Handed Carbon Nanotubes by DNA. Journal of the American Chemical Society, 2016, 138, 16677-16685.	6.6	160
39	Characterizing the Effect of Salt and Surfactant Concentration on the Counterion Atmosphere around Surfactant Stabilized SWCNTs Using Analytical Ultracentrifugation. Langmuir, 2016, 32, 3926-3936.	1.6	20
40	Quantification of Carbon Nanotubes in Environmental Matrices: Current Capabilities, Case Studies, and Future Prospects. Environmental Science & Technology, 2016, 50, 4587-4605.	4.6	104
41	Intensity Ratio of Resonant Raman Modes for (<i>n</i> , <i>m</i>) Enriched Semiconducting Carbon Nanotubes. ACS Nano, 2016, 10, 5252-5259.	7.3	48
42	Enhancing single-wall carbon nanotube properties through controlled endohedral filling. Nanoscale Horizons, 2016, 1, 317-324.	4.1	50
43	A facile and low-cost length sorting of single-wall carbon nanotubes by precipitation and applications for thin-film transistors. Nanoscale, 2016, 8, 3467-3473.	2.8	32
44	Impact of SWCNT processing on nanotube-silicon heterojunctions. Nanoscale, 2016, 8, 7969-7977.	2.8	29
45	Asymmetric excitation profiles in the resonance Raman response of armchair carbon nanotubes. Physical Review B, 2015, 91, .	1.1	24
46	Isolation of >1 nm Diameter Single-Wall Carbon Nanotube Species Using Aqueous Two-Phase Extraction. ACS Nano, 2015, 9, 5377-5390.	7.3	137
47	Redox Sorting of Carbon Nanotubes. Nano Letters, 2015, 15, 1642-1646.	4.5	85
48	Nature of Record Efficiency Fluid-Processed Nanotube-Silicon Heterojunctions. Journal of Physical Chemistry C, 2015, 119, 10295-10303.	1.5	31
49	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	1.1	71
50	Diameter dependence of TO phonon frequencies and the Kohn anomaly in armchair single-wall carbon nanotubes. Physical Review B, 2014, 90, .	1.1	5
51	Rod Hydrodynamics and Length Distributions of Single-Wall Carbon Nanotubes Using Analytical Ultracentrifugation. Langmuir, 2014, 30, 4895-4904.	1.6	40
52	Single-Step Total Fractionation of Single-Wall Carbon Nanotubes by Countercurrent Chromatography. Analytical Chemistry, 2014, 86, 3980-3984.	3.2	47
53	Isolation of Specific Small-Diameter Single-Wall Carbon Nanotube Species via Aqueous Two-Phase Extraction. Advanced Materials, 2014, 26, 2800-2804.	11.1	215
54	High-Resolution Length Fractionation of Surfactant-Dispersed Carbon Nanotubes. Analytical Chemistry, 2013, 85, 1382-1388.	3.2	51

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55	Elasticity and rigidity percolation in flexible carbon nanotube films on PDMS substrates. <i>Soft Matter</i> , 2013, 9, 11568.	1.2	31
56	Salt-specific effects in aqueous dispersions of carbon nanotubes. <i>Soft Matter</i> , 2013, 9, 3712.	1.2	28
57	Analyzing Surfactant Structures on Length and Chirality Resolved (6,5) Single-Wall Carbon Nanotubes by Analytical Ultracentrifugation. <i>ACS Nano</i> , 2013, 7, 3373-3387.	7.3	82
58	Spontaneous Partition of Carbon Nanotubes in Polymer-Modified Aqueous Phases. <i>Journal of the American Chemical Society</i> , 2013, 135, 6822-6825.	6.6	292
59	Size and density measurement of core-shell Si nanoparticles by analytical ultracentrifugation. <i>Nanotechnology</i> , 2013, 24, 155701.	1.3	27
60	Concentration Measurement of Length-Fractionated Colloidal Single-Wall Carbon Nanotubes. <i>Analytical Chemistry</i> , 2012, 84, 8733-8739.	3.2	22
61	Electronic Durability of Flexible Transparent Films from Type-Specific Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 881-887.	7.3	45
62	Determination of moisture content of single-wall carbon nanotubes. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 429-438.	1.9	17
63	Use of neutron activation analysis for the characterization of single-wall carbon nanotube materials. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 291, 561-567.	0.7	9
64	Measuring Agglomerate Size Distribution and Dependence of Localized Surface Plasmon Resonance Absorbance on Gold Nanoparticle Agglomerate Size Using Analytical Ultracentrifugation. <i>ACS Nano</i> , 2011, 5, 8070-8079.	7.3	96
65	Structural Stability of Transparent Conducting Films Assembled from Length Purified Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3973-3981.	1.5	19
66	Separation of Empty and Water-Filled Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 3943-3953.	7.3	65
67	Effects of gamma irradiation for sterilization on aqueous dispersions of length sorted carbon nanotubes. <i>Nano Research</i> , 2011, 4, 393-404.	5.8	11
68	Carbon Nanotubes: Measuring Dispersion and Length. <i>Advanced Materials</i> , 2011, 23, 338-348.	11.1	44
69	Tailored Distribution of Single-Wall Carbon Nanotubes from Arc Plasma Synthesis Using Magnetic Fields. <i>ACS Nano</i> , 2010, 4, 5187-5192.	7.3	60
70	Separation and Characterization of Double-Wall Carbon Nanotube Subpopulations. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11343-11351.	1.5	18
71	SPR imaging study of DNA wrapped single wall carbon nanotube (ssDNA-SWCNT) adsorption on a model biological (collagen) substrate. <i>Soft Matter</i> , 2010, 6, 5581.	1.2	9
72	Phonon dephasing and population decay dynamics of the G-band of semiconducting single-wall carbon nanotubes. <i>Physical Review B</i> , 2010, 82, .	1.1	20

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73	Carbon Nanomaterials Standards Efforts at NIST. ECS Transactions, 2009, 19, 153-159.	0.3	0
74	Water-soluble DNA-wrapped Single-walled Carbon-nanotube/Quantum-dot Complexes. Small, 2009, 5, 2149-2155.	5.2	38
75	Self-Assembly of Ordered Nanowires in Biological Suspensions of Single-Wall Carbon Nanotubes. ACS Nano, 2009, 3, 189-196.	7.3	24
76	Microscale Polymer-nanotube Composites. ACS Applied Materials & Interfaces, 2009, 1, 1561-1566.	4.0	25
77	Methods for TEM analysis of NIST's single-walled carbon nanotube Standard Reference Material. Proceedings of SPIE, 2009, , .	0.8	1
78	Length Fractionation of Carbon Nanotubes Using Centrifugation. Advanced Materials, 2008, 20, 1609-1613.	11.1	160
79	Centrifugal Length Separation of Carbon Nanotubes. Langmuir, 2008, 24, 13880-13889.	1.6	81
80	Influence of Nanotube Length on the Optical and Conductivity Properties of Thin Single-Wall Carbon Nanotube Networks. ACS Nano, 2008, 2, 1879-1884.	7.3	121
81	Comparison of the Quality of Aqueous Dispersions of Single Wall Carbon Nanotubes Using Surfactants and Biomolecules. Langmuir, 2008, 24, 5070-5078.	1.6	225
82	Size Separation of Single-Wall Carbon Nanotubes by Flow-Field Flow Fractionation. Analytical Chemistry, 2008, 80, 2514-2523.	3.2	78
83	Chromatographic Fractionation of SWNT/DNA Dispersions with On-Line Multi-Angle Light Scattering. Journal of Physical Chemistry C, 2008, 112, 1842-1850.	1.5	39
84	Measurement of Single-Wall Nanotube Dispersion by Size Exclusion Chromatography. Journal of Physical Chemistry C, 2007, 111, 17914-17918.	1.5	51
85	Relationship between dispersion metric and properties of PMMA/SWNT nanocomposites. Polymer, 2007, 48, 4855-4866.	1.8	162
86	Length-Dependent Optical Effects in Single-Wall Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 10607-10612.	6.6	138
87	Mechanism of Rectified Lateral Motion of Particles near Electrodes in Alternating Electric Fields below 1 kHz. Langmuir, 2006, 22, 9846-9852.	1.6	42
88	Chromatographic Separation of Single Wall Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2006, 922, 1.	0.1	1
89	Evidence of Multiple Electrohydrodynamic Forces Acting on a Colloidal Particle near an Electrode Due to an Alternating Current Electric Field. Langmuir, 2005, 21, 1784-1794.	1.6	71
90	Vertical Motion of a Charged Colloidal Particle near an AC Polarized Electrode with a Nonuniform Potential Distribution: A Theory and Experimental Evidence. Langmuir, 2004, 20, 4823-4834.	1.6	57

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91	Calculation of ac Electric Field Effects on the Average Height of a Charged Colloid: Effects of Electrophoretic and Brownian Motions. Langmuir, 2003, 19, 6627-6632.	1.6	17
92	Vertical Oscillatory Motion of a Single Colloidal Particle Adjacent to an Electrode in an ac Electric Field. Langmuir, 2002, 18, 7810-7820.	1.6	48
93	Analysis of Hydrogen Trapping in Palladium by Modulated Permeation Spectroscopy. Journal of the Electrochemical Society, 2000, 147, 3456.	1.3	11