Matteo Pasquali

List of Publications by Year in Descending Order

212 papers	12,737 citations	59 h-index	108 g-index
232 ext. papers	14,209 ext. citations	8.2 avg, IF	6.23 L-index

#	Paper	IF	Citations
212	Ultrahigh strength, modulus, and conductivity of graphitic fibers by macromolecular coalescence.. *Science Advances*, **2022**, 8, eabn0939	14.3	3
211	Versatile acid solvents for pristine carbon nanotube assembly.. *Science Advances*, **2022**, 8, eabm3285	14.3	3
210	Liquid crystals of neat boron nitride nanotubes and their assembly into ordered macroscopic materials. *Nature Communications*, **2022**, 13,	17.4	3
209	Strongly anisotropic field emission from highly aligned carbon nanotube films. *Journal of Applied Physics*, **2021**, 129, 125103	2.5	6
208	Substrate-Versatile Direct-Write Printing of Carbon Nanotube-Based Flexible Conductors, Circuits, and Sensors. *Advanced Functional Materials*, **2021**, 31, 2100245	15.6	8
207	Flexible Electronics: Substrate-Versatile Direct-Write Printing of Carbon Nanotube-Based Flexible Conductors, Circuits, and Sensors (Adv. Funct. Mater. 25/2021). *Advanced Functional Materials*, **2021**, 31, 2170181	15.6	1
206	Biocompatibility studies of macroscopic fibers made from carbon nanotubes: Implications for carbon nanotube macrostructures in biomedical applications. *Carbon*, **2021**, 173, 462-476	10.4	13
205	Improved properties, increased production, and the path to broad adoption of carbon nanotube fibers. *Carbon*, **2021**, 171, 689-694	10.4	47
204	Enhanced ordering in length-polydisperse carbon nanotube solutions at high concentrations as revealed by small angle X-ray scattering. *Soft Matter*, **2021**, 17, 5122-5130	3.6	2
203	Opinion: We can use carbon to decarbonize-and get hydrogen for free. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
202	Washable, Sewable, All-Carbon Electrodes and Signal Wires for Electronic Clothing. *Nano Letters*, **2021**, 21, 7093-7099	11.5	6
201	Macroscopic weavable fibers of carbon nanotubes with giant thermoelectric power factor. *Nature Communications*, **2021**, 12, 4931	17.4	18
200	Understanding the Exfoliation and Dispersion of Hexagonal Boron Nitride Nanosheets by Surfactants: Implications for Antibacterial and Thermally Resistant Coatings. *ACS Applied Nano Materials*, **2021**, 4, 142-151	5.6	6
199	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. *JPhys Materials*, **2020**, 3, 034009	4.2	20
198	PEDOT assisted CNT self-supported electrodes for high energy and power density. *Electrochimica Acta*, **2020**, 349, 136418	6.7	3
197	Real-Time Visualization and Dynamics of Boron Nitride Nanotubes Undergoing Brownian Motion. *Journal of Physical Chemistry B*, **2020**, 124, 4185-4192	3.4	4
196	Couette flows of a thixotropic yield-stress material: Performance of a novel fluidity-based constitutive model. *Journal of Rheology*, **2020**, 64, 889-898	4.1	3

195	Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. *ACS Nano*, **2020**, 14, 6383-6406	16.7	290
194	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. *Nature Nanotechnology*, **2020**, 15, 164-166	28.7	40
193	Perovskite-Carbon Nanotube Light-Emitting Fibers. *Nano Letters*, **2020**, 20, 3178-3184	11.5	8
192	Macroscopically aligned carbon nanotubes for flexible and high-temperature electronics, optoelectronics, and thermoelectrics. *Journal Physics D: Applied Physics*, **2020**, 53, 063001	3	8
191	Effect of Carbon Nanotube Diameter and Stiffness on Their Phase Behavior in Crowded Solutions. *Langmuir*, **2020**, 36, 242-249	4	3
190	Fluorescent surfactants from common dyes □Rhodamine B and Eosin Y. *Pure and Applied Chemistry*, **2020**, 92, 265-274	2.1	2
189	Surfactant-assisted individualization and dispersion of boron nitride nanotubes. *Nanoscale Advances*, **2019**, 1, 1096-1103	5.1	24
188	Carbon nanotube thin film patch antennas for wireless communications. *Applied Physics Letters*, **2019**, 114, 203102	3.4	17
187	Self-Sorting of 10-□m-Long Single-Walled Carbon Nanotubes in Aqueous Solution. *Advanced Materials*, **2019**, 31, e1901641	24	4
186	Polyimide Aerogels as Lightweight Dielectric Insulators for Carbon Nanotube Cables. *ACS Applied Polymer Materials*, **2019**, 1, 1680-1688	4.3	7
185	Dynamic Strengthening of Carbon Nanotube Fibers under Extreme Mechanical Impulses. *Nano Letters*, **2019**, 19, 3519-3526	11.5	20
184	Carbon Nanotube Fiber Field Emission Array Cathodes. *IEEE Transactions on Plasma Science*, **2019**, 47, 2032-2038	1.3	23
183	Adverse Effect of PTFE Stir Bars on the Covalent Functionalization of Carbon and Boron Nitride Nanotubes Using Billups-Birch Reduction Conditions. *ACS Omega*, **2019**, 4, 5098-5106	3.9	5
182	Scalable Purification of Boron Nitride Nanotubes via Wet Thermal Etching. *Chemistry of Materials*, **2019**, 31, 1520-1527	9.6	21
181	Tunable Alkylation of White Graphene (Hexagonal Boron Nitride) Using Reductive Conditions. *Journal of Physical Chemistry C*, **2019**, 123, 19725-19733	3.8	5
180	In Vivo Restoration of Myocardial Conduction With Carbon Nanotube Fibers. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e007256	6.4	21
179	Stage Transitions in Graphite Intercalation Compounds: Role of the Graphite Structure. *Journal of Physical Chemistry C*, **2019**, 123, 19246-19253	3.8	19
178	Transport and photo-conduction in carbon nanotube fibers. *Applied Physics Letters*, **2019**, 115, 023101	3.4	2

177	Stability of Chemically Doped Nanotube□Silicon Heterojunction Solar Cells: Role of Oxides at the Carbon□Silicon Interface. *ACS Applied Energy Materials*, **2019**, 2, 5925-5932	6.1	9
176	The effective tensile and bending stiffness of nanotube fibers. *International Journal of Mechanical Sciences*, **2019**, 163, 105089	5.5	3
175	All-solid-state cells with Li4Ti5O12/carbon nanotube composite electrodes prepared by infiltration with argyrodite sulfide-based solid electrolytes via liquid-phase processing. *Journal of Power Sources*, **2019**, 417, 125-131	8.9	22
174	Electrical and acoustic vibroscopic measurements for determining carbon nanotube fiber linear density. *Carbon*, **2019**, 144, 417-422	10.4	7
173	Bright and Ultrafast Photoelectron Emission from Aligned Single-Wall Carbon Nanotubes through Multiphoton Exciton Resonance. *Nano Letters*, **2019**, 19, 158-164	11.5	8
172	Highly Concentrated Aqueous Dispersions of Carbon Nanotubes for Flexible and Conductive Fibers. *Industrial & Engineering Chemistry Research*, **2018**, 57, 3554-3560	3.9	10
171	Extraction of Boron Nitride Nanotubes and Fabrication of Macroscopic Articles Using Chlorosulfonic Acid. *Nano Letters*, **2018**, 18, 1615-1619	11.5	16
170	Super high-rate fabrication of high-purity carbon nanotube aerogels from floating catalyst method for oil spill cleaning. *Chemical Physics Letters*, **2018**, 693, 146-151	2.5	39
169	Structure-Property Relations in Carbon Nanotube Fibers by Downscaling Solution Processing. *Advanced Materials*, **2018**, 30, 1704482	24	69
168	Directional sensing based on flexible aligned carbon nanotube film nanocomposites. *Nanoscale*, **2018**, 10, 14938-14946	7.7	31
167	Aligned-SWCNT film laminated nanocomposites: Role of the film on mechanical and electrical properties. *Carbon*, **2018**, 139, 680-687	10.4	19
166	Bending behavior of CNT fibers and their scaling laws. *Soft Matter*, **2018**, 14, 8284-8292	3.6	14
165	Carbon nanotube woven textile photodetector. *Physical Review Materials*, **2018**, 2,	3.2	22
164	Fluidic Microactuation of Flexible Electrodes for Neural Recording. *Nano Letters*, **2018**, 18, 326-335	11.5	61
163	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. *ACS Nano*, **2018**, 12, 11756-11784	16.7	239
162	Quantification of Carbon Nanotube Liquid Crystal Morphology via Neutron Scattering. *Macromolecules*, **2018**, 51, 6892-6900	5.5	5
161	Chemical Decoration of Boron Nitride Nanotubes Using the Billups-Birch Reaction: Toward Enhanced Thermostable Reinforced Polymer and Ceramic Nanocomposites. *ACS Applied Nano Materials*, **2018**, 1, 2421-2429	5.6	13
160	Eco-friendly process toward collector- and binder-free, high-energy density electrodes for lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2017**, 21, 1407-1416	2.6	8

159	A micro-scale printable nanoclip for electrical stimulation and recording in small nerves. *Journal of Neural Engineering*, **2017**, 14, 036006	5	41
158	Direct Imaging of Carbon Nanotube Liquid-Crystalline Phase Development in True Solutions. *Langmuir*, **2017**, 33, 4011-4018	4	20
157	Increased solubility and fiber spinning of graphenide dispersions aided by crown-ethers. *Chemical Communications*, **2017**, 53, 1498-1501	5.8	5
156	Purification and Dissolution of Carbon Nanotube Fibers Spun from the Floating Catalyst Method. *ACS Applied Materials & Interfaces*, **2017**, 9, 37112-37119	9.5	38
155	High efficiency carbon nanotube thread antennas. *Applied Physics Letters*, **2017**, 111, 163109	3.4	25
154	Influence of Carbon Nanotube Characteristics on Macroscopic Fiber Properties. *ACS Applied Materials & Interfaces*, **2017**, 9, 36189-36198	9.5	114
153	Line Tension of Twist-Free Carbon Nanotube Lyotropic Liquid Crystal Microdroplets on Solid Surfaces. *Langmuir*, **2017**, 33, 9115-9121	4	2
152	Dissolution and Characterization of Boron Nitride Nanotubes in Superacid. *Langmuir*, **2017**, 33, 14340-14346	4	17
151	Pulsed black-body emitter based on current-driven carbon nanotube fibers **2017**,		1
150	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. *Physical Review Materials*, **2017**, 1,	3.2	19
149	DNA sequencing by nanopores: advances and challenges. *Journal Physics D: Applied Physics*, **2016**, 49, 413001	3	27
148	Enlightening the ultrahigh electrical conductivities of doped double-wall carbon nanotube fibers by Raman spectroscopy and first-principles calculations. *Nanoscale*, **2016**, 8, 19668-19676	7.7	13
147	Lightweight, Flexible, High-Performance Carbon Nanotube Cables Made by Scalable Flow Coating. *ACS Applied Materials & Interfaces*, **2016**, 8, 4903-10	9.5	30
146	Impact of SWCNT processing on nanotube-silicon heterojunctions. *Nanoscale*, **2016**, 8, 7969-77	7.7	26
145	High-performance graphene-based supercapacitors made by a scalable blade-coating approach. *Nanotechnology*, **2016**, 27, 165402	3.4	14
144	Room temperature gas sensing properties of ultrathin carbon nanotube films by surfactant-free dip coating. *Sensors and Actuators B: Chemical*, **2016**, 227, 128-134	8.5	46
143	Relationship of Extensional Viscosity and Liquid Crystalline Transition to Length Distribution in Carbon Nanotube Solutions. *Macromolecules*, **2016**, 49, 681-689	5.5	46
142	Carbon nanotube fiber terahertz polarizer. *Applied Physics Letters*, **2016**, 108, 141107	3.4	29

141	The effect of shear-thickening on liquid transfer from an idealized gravure cell. *Journal of Non-Newtonian Fluid Mechanics*, **2015**, 221, 55-65	2.7	16
140	Experimental realization of crossover in shape and director field of nematic tactoids. *Physical Review E*, **2015**, 91, 042507	2.4	46
139	A New Stabilization of Adaptive Step Trapezoid Rule Based on Finite Difference Interrupts. *SIAM Journal of Scientific Computing*, **2015**, 37, A725-A746	2.6	3
138	Neural stimulation and recording with bidirectional, soft carbon nanotube fiber microelectrodes. *ACS Nano*, **2015**, 9, 4465-74	16.7	194
137	High performance solid-state supercapacitors based on compressed graphene foam. *RSC Advances*, **2015**, 5, 84836-84839	3.7	14
136	Theoretical analysis of selectivity mechanisms in molecular transport through channels and nanopores. *Journal of Chemical Physics*, **2015**, 142, 044705	3.9	12
135	Ultrabroadband, Lightweight, Flexible, and Polarization Sensitive Photodetector Based on Carbon Nanotube Fibers **2015**,		1
134	High performance all-carbon thin film supercapacitors. *Journal of Power Sources*, **2015**, 274, 823-830	8.9	47
133	Noncontact conductivity and dielectric measurement for high throughput roll-to-roll nanomanufacturing. *Scientific Reports*, **2015**, 5, 17019	4.9	13
132	Cryogenic-temperature electron microscopy direct imaging of carbon nanotubes and graphene solutions in superacids. *Journal of Microscopy*, **2015**, 259, 16-25	1.9	13
131	Effect of the rheological properties of carbon nanotube dispersions on the processing and properties of transparent conductive electrodes. *Langmuir*, **2015**, 31, 5928-34	4	21
130	Three-dimensional patterning of solid microstructures through laser reduction of colloidal graphene oxide in liquid-crystalline dispersions. *Nature Communications*, **2015**, 6, 7157	17.4	47
129	Morphology dependent field emission of acid-spun carbon nanotube fibers. *Nanotechnology*, **2015**, 26, 105706	3.4	27
128	Electrochemical growth of nickel nanoparticles on carbon nanotubes fibers: Kinetic modeling and implications for an easy to handle platform for gas sensing device. *Electrochimica Acta*, **2015**, 157, 115-124	6.7	11
127	Stabilization and functionalization of single-walled carbon nanotubes with polyvinylpyrrolidone copolymers for applications in aqueous media. *Journal of Polymer Science Part A*, **2015**, 53, 337-343	2.5	7
126	Assessment of length and bundle distribution of dilute single-walled carbon nanotubes by viscosity measurements. *AICHE Journal*, **2014**, 60, 1499-1508	3.6	14
125	High-Ampacity Power Cables of Tightly-Packed and Aligned Carbon Nanotubes. *Advanced Functional Materials*, **2014**, 24, 3241-3249	15.6	87
124	A multiscale, biophysical model of flow-induced red blood cell damage. *AICHE Journal*, **2014**, 60, 1509-1516	3.6	28

123	High-resolution mapping of intracellular fluctuations using carbon nanotubes. *Science*, **2014**, 344, 1031-5	33.3	152
122	Macroscopic nanotube fibers spun from single-walled carbon nanotube polyelectrolytes. *ACS Nano*, **2014**, 8, 9107-12	16.7	69
121	Graphene-based supercapacitor with carbon nanotube film as highly efficient current collector. *Nanotechnology*, **2014**, 25, 435405	3.4	46
120	Statistical length measurement method by direct imaging of carbon nanotubes. *ACS Applied Materials & Interfaces*, **2014**, 6, 6139-46	9.5	11
119	Superconductive niobium films coating carbon nanotube fibers. *Superconductor Science and Technology*, **2014**, 27, 115006	3.1	6
118	Synthesis and Crystal Structure of Gold Nanobelts. *Chemistry of Materials*, **2014**, 26, 1999-2004	9.6	14
117	Biocompatible carbon nanotube-chitosan scaffold matching the electrical conductivity of the heart. *ACS Nano*, **2014**, 8, 9822-32	16.7	149
116	Stress transfer in polyacrylonitrile/carbon nanotube composite fibers. *Polymer*, **2014**, 55, 2734-2743	3.9	47
115	Carbon Nanofibers: High-Ampacity Power Cables of Tightly-Packed and Aligned Carbon Nanotubes (Adv. Funct. Mater. 21/2014). *Advanced Functional Materials*, **2014**, 24, 3288-3288	15.6	
114	Large flake graphene oxide fibers with unconventional 100% knot efficiency and highly aligned small flake graphene oxide fibers. *Advanced Materials*, **2013**, 25, 4592-7	24	158
113	Covalently interconnected three-dimensional graphene oxide solids. *ACS Nano*, **2013**, 7, 7034-40	16.7	204
112	Computational study of viscoelastic effects on liquid transfer during gravure printing. *Journal of Non-Newtonian Fluid Mechanics*, **2013**, 199, 1-11	2.7	29
111	Strong, light, multifunctional fibers of carbon nanotubes with ultrahigh conductivity. *Science*, **2013**, 339, 182-6	33.3	920
110	Macroscopic self-standing SWCNT fibres as efficient electron emitters with very high emission current for robust cold cathodes. *Carbon*, **2013**, 52, 356-362	10.4	22
109	Increased solubility, liquid-crystalline phase, and selective functionalization of single-walled carbon nanotube polyelectrolyte dispersions. *ACS Nano*, **2013**, 7, 4503-10	16.7	82
108	Scalable Formation of Carbon Nanotube Films Containing Highly Aligned Whiskerlike Crystallites. *Industrial & Engineering Chemistry Research*, **2013**, 52, 8705-8713	3.9	7
107	Direct real-time monitoring of stage transitions in graphite intercalation compounds. *ACS Nano*, **2013**, 7, 2773-80	16.7	121
106	Graphene nanoribbons as an advanced precursor for making carbon fiber. *ACS Nano*, **2013**, 7, 1628-37	16.7	104

105	Evidence for adsorbate-enhanced field emission from carbon nanotube fibers. *Applied Physics Letters*, **2013**, 103, 053113	3.4	26
104	Transient stress-based and strain-based hemolysis estimation in a simplified blood pump. *International Journal for Numerical Methods in Biomedical Engineering*, **2013**, 29, 1148-60	2.6	30
103	Demonstration of an Acid-Spun Single-Walled Nanotube Fiber Cathode. *IEEE Transactions on Plasma Science*, **2012**, 40, 1871-1877	1.3	19
102	Localized structures in vibrated emulsions. *Europhysics Letters*, **2012**, 98, 24002	1.6	7
101	Nonlinear photoluminescence imaging of isotropic and liquid crystalline dispersions of graphene oxide. *ACS Nano*, **2012**, 6, 8060-6	16.7	34
100	Nematic-Like Alignment in SWNT Thin Films from Aqueous Colloidal Suspensions. *Industrial & Engineering Chemistry Research*, **2012**, 51, 10232-10237	3.9	22
99	Hybrid C-nanotubes/Si 3D nanostructures by one-step growth in a dual-plasma reactor. *Chemical Physics Letters*, **2012**, 539-540, 94-101	2.5	12
98	High-performance carbon nanotube transparent conductive films by scalable dip coating. *ACS Nano* , **2012**, 6, 9737-44	16.7	254
97	Transport mechanism in granular Ni deposited on carbon nanotubes fibers. *Physical Review B*, **2012**, 86,	3.3	9
96	Electrically insulating thermal nano-oils using 2D fillers. *ACS Nano*, **2012**, 6, 1214-20	16.7	189
95	Overcoming the "coffee-stain" effect by compositional Marangoni-flow-assisted drop-drying. *Journal of Physical Chemistry B*, **2012**, 116, 6536-42	3.4	189
94	Catalyst□support interactions and their influence in water-assisted carbon nanotube carpet growth. *Carbon*, **2012**, 50, 2396-2406	10.4	50
93	Competing mechanisms and scaling laws for carbon nanotube scission by ultrasonication. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11599-604	11.5	73
92	Vertically aligned single-walled carbon nanotubes as low-cost and high electrocatalytic counter electrode for dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2011**, 3, 3157-61	9.5	82
91	Direct imaging of carbon nanotubes spontaneously filled with solvent. *Chemical Communications*, **2011**, 47, 1228-30	5.8	10
90	Liquid crystals of aqueous, giant graphene oxide flakes. *Soft Matter*, **2011**, 7, 11154	3.6	160
89	Space-time least-squares finite element method for convection-reaction system with transformed variables. *Computer Methods in Applied Mechanics and Engineering*, **2011**, 200, 2562-2576	5.7	13
88	Single-walled carbon nanotubes shell decorating porous silicate materials: A general platform for studying the interaction of carbon nanotubes with photoactive molecules. *Chemical Science*, **2011**, 2, 1682	9.4	10

87	Templating of self-alignment patterns of anisotropic gold nanoparticles on ordered SWNT macrostructures. *ACS Applied Materials & Interfaces*, **2011**, 3, 3718-24	9.5	19
86	Effect of Functionalized Nanomaterials on the Rheology of Borate Cross-Linked Guar Gum. *Industrial & Engineering Chemistry Research*, **2011**, 50, 3259-3264	3.9	12
85	Axial thermal rotation of slender rods. *Physical Review Letters*, **2011**, 106, 188302	7.4	9
84	Effect of potassium doping on electrical properties of carbon nanotube fibers. *Physical Review B*, **2011**, 84,	3.3	22
83	Low temperature conductivity of carbon nanotube aggregates. *Journal of Physics Condensed Matter* , **2011**, 23, 475302	1.8	12
82	Spontaneous high-concentration dispersions and liquid crystals of graphene. *Nature Nanotechnology*, **2010**, 5, 406-11	28.7	488
81	Formation of beads-on-a-string structures during break-up of viscoelastic filaments. *Nature Physics*, **2010**, 6, 625-631	16.2	225
80	Brownian motion of stiff filaments in a crowded environment. *Science*, **2010**, 330, 1804-7	33.3	103
79	Polymer translocation through pores with complex geometries. *Journal of Chemical Physics*, **2010**, 133, 024902	3.9	13
78	Dry contact transfer printing of aligned carbon nanotube patterns and characterization of their optical properties for diameter distribution and alignment. *ACS Nano*, **2010**, 4, 1131-45	16.7	82
77	Mono- and Biexponential Luminescence Decays of Individual Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2010**, 114, 14025-14028	3.8	39
76	Spontaneous dissolution of ultralong single- and multiwalled carbon nanotubes. *ACS Nano*, **2010**, 4, 3969-78	16.7	108
75	Diameter-dependent solubility of single-walled carbon nanotubes. *ACS Nano*, **2010**, 4, 3063-72	16.7	60
74	Dynamic Alignment of Single-Walled Carbon Nanotubes in Pulsed Magnetic Fields. *Journal of Low Temperature Physics*, **2010**, 159, 262-266	1.3	2
73	Viscoelastic flow in a two-dimensional collapsible channel. *Journal of Non-Newtonian Fluid Mechanics*, **2010**, 165, 1204-1218	2.7	11
72	Insights into the physics of spray coating of SWNT films. *Chemical Engineering Science*, **2010**, 65, 2000-2008	4.1	68
71	Modeling the phase behavior of polydisperse rigid rods with attractive interactions with applications to single-walled carbon nanotubes in superacids. *Journal of Chemical Physics*, **2009**, 131, 084901	3.9	56
70	A review of computational fluid dynamics analysis of blood pumps. *European Journal of Applied Mathematics*, **2009**, 20, 363-397	1	89

69	True solutions of single-walled carbon nanotubes for assembly into macroscopic materials. *Nature Nanotechnology*, **2009**, 4, 830-4	28.7	417
68	Nanotubes as polymers. *Polymer*, **2009**, 50, 4979-4997	3.9	170
67	Parallel solution of large-scale free surface viscoelastic flows via sparse approximate inverse preconditioning. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 157, 44-54	2.7	4
66	Beads-on-string formation during filament pinch-off: Dynamics with the PTT model for non-affine motion. *Journal of Non-Newtonian Fluid Mechanics*, **2009**, 159, 64-71	2.7	12
65	Operator splitting for the numerical solution of free surface flow at low capillary numbers. *Journal of Computational and Applied Mathematics*, **2009**, 232, 72-81	2.4	
64	Diameter-dependent bending dynamics of single-walled carbon nanotubes in liquids. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 14219-23	11.5	115
63	Alignment dynamics of single-walled carbon nanotubes in pulsed ultrahigh magnetic fields. *ACS Nano*, **2009**, 3, 131-8	16.7	46
62	Self-assembly of ordered nanowires in biological suspensions of single-wall carbon nanotubes. *ACS Nano*, **2009**, 3, 189-96	16.7	22
61	Self-Assembled Nanoparticle-Nanotube Structures (nanoPaNTs) Based on Antenna Chemistry of Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2009**, 113, 18863-18869	3.8	5
60	Recycling Ultrathin Catalyst Layers for Multiple Single-Walled Carbon Nanotube Array Regrowth Cycles and Selectivity in Catalyst Activation. *Chemistry of Materials*, **2009**, 21, 1550-1556	9.6	18
59	Nanoengineered carbon scaffolds for hydrogen storage. *Journal of the American Chemical Society*, **2009**, 131, 723-8	16.4	69
58	Do inner shells of double-walled carbon nanotubes fluoresce?. *Nano Letters*, **2009**, 9, 3282-9	11.5	36
57	Kinetics of Nanotube and Microfiber Scission under Sonication. *Journal of Physical Chemistry C*, **2009**, 113, 20599-20605	3.8	154
56	Continuous and scalable fabrication of transparent conducting carbon nanotube films. *ACS Nano*, **2009**, 3, 835-43	16.7	350
55	Environmental and synthesis-dependent luminescence properties of individual single-walled carbon nanotubes. *ACS Nano*, **2009**, 3, 2153-6	16.7	44
54	Brownian dynamics simulations of single-wall carbon nanotube separation by type using dielectrophoresis. *Journal of Physical Chemistry B*, **2008**, 112, 7467-77	3.4	23
53	High-shear treatment of single-walled carbon nanotube superacid solutions as a pre-processing technique for the assembly of fibres and films. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems*, **2008**, 222, 101-109		1
52	Coil-stretch transition and the breakdown of computations for viscoelastic fluid flow around a confined cylinder. *Journal of Rheology*, **2008**, 52, 197-223	4.1	17

51	Multiscale simulation of dilute DNA in a roll-knife coating flow. *Journal of Rheology*, **2008**, 52, 1405-1425	4.1	1
50	Synthesis of high aspect-ratio carbon nanotube "flying carpets" from nanostructured flake substrates. *Nano Letters*, **2008**, 8, 1879-83	11.5	64
49	Formation of highly dense aligned ribbons and transparent films of single-walled carbon nanotubes directly from carpets. *ACS Nano*, **2008**, 2, 1871-8	16.7	90
48	Temperature and Gas Pressure Effects in Vertically Aligned Carbon Nanotube Growth from FeMo Catalyst. *Journal of Physical Chemistry C*, **2008**, 112, 14041-14051	3.8	46
47	Stable luminescence from individual carbon nanotubes in acidic, basic, and biological environments. *Journal of the American Chemical Society*, **2008**, 130, 2626-33	16.4	63
46	Antenna chemistry with metallic single-walled carbon nanotubes. *Journal of the American Chemical Society*, **2008**, 130, 15340-7	16.4	23
45	Effect of charge distribution on the translocation of an inhomogeneously charged polymer through a nanopore. *Journal of Chemical Physics*, **2008**, 128, 125104	3.9	16
44	Carbon nanotube-based neat fibers. *Nano Today*, **2008**, 3, 24-34	17.9	227
43	A computational study of the effect of viscoelasticity on slot coating flow of dilute polymer solutions. *Journal of Non-Newtonian Fluid Mechanics*, **2008**, 149, 104-123	2.7	23
42	Dynamics of viscoelastic liquid filaments: Low capillary number flows. *Journal of Non-Newtonian Fluid Mechanics*, **2008**, 150, 211-225	2.7	41
41	Solubility and Size Separation of Large Fullerenes in Concentrated Sulfuric Acids *Journal of Physical Chemistry C*, **2007**, 111, 17966-17969	3.8	6
40	A highly selective, one-pot purification method for single-walled carbon nanotubes. *Journal of Physical Chemistry B*, **2007**, 111, 1249-52	3.4	94
39	Simple Length Determination of Single-Walled Carbon Nanotubes by Viscosity Measurements in Dilute Suspensions. *Macromolecules*, **2007**, 40, 4043-4047	5.5	72
38	Carbon nanotube-enhanced thermal destruction of cancer cells in a noninvasive radiofrequency field. *Cancer*, **2007**, 110, 2654-65	6.4	334
37	A simple method for simulating general viscoelastic fluid flows with an alternate log-conformation formulation. *Journal of Non-Newtonian Fluid Mechanics*, **2007**, 147, 189-199	2.7	40
36	An isochoric domain deformation method for computing steady free surface flows with conserved volumes. *Journal of Computational Physics*, **2007**, 226, 398-413	4.1	6
35	Dispersions of functionalized single-walled carbon nanotubes in strong acids: solubility and rheology. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 3378-85	1.3	21
34	Self-Assembly of Single-Walled Carbon Nanotubes into a Sheet by Drop Drying. *Advanced Materials*, **2006**, 18, 29-34	24	111

33	Models and finite element techniques for blood flow simulation. *International Journal of Computational Fluid Dynamics*, **2006**, 20, 175-181	1.2	9
32	Dynamics of individual single-walled carbon nanotubes in water by real-time visualization. *Physical Review Letters*, **2006**, 96, 246104	7.4	129
31	Dynamics of polymer translocation through nanopores: theory meets experiment. *Physical Review Letters*, **2006**, 96, 118103	7.4	113
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