

Matteo Pasquali

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212
papers

12,737
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59
h-index

108
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232
ext. papers

14,209
ext. citations

8.2
avg, IF

6.23
L-index

#	Paper	IF	Citations
212	Strong, light, multifunctional fibers of carbon nanotubes with ultrahigh conductivity. <i>Science</i> , 2013 , 339, 182-6	33.3	920
211	Macroscopic, neat, single-walled carbon nanotube fibers. <i>Science</i> , 2004 , 305, 1447-50	33.3	708
210	Spontaneous high-concentration dispersions and liquid crystals of graphene. <i>Nature Nanotechnology</i> , 2010 , 5, 406-11	28.7	488
209	True solutions of single-walled carbon nanotubes for assembly into macroscopic materials. <i>Nature Nanotechnology</i> , 2009 , 4, 830-4	28.7	417
208	Continuous and scalable fabrication of transparent conducting carbon nanotube films. <i>ACS Nano</i> , 2009 , 3, 835-43	16.7	350
207	Carbon nanotube-enhanced thermal destruction of cancer cells in a noninvasive radiofrequency field. <i>Cancer</i> , 2007 , 110, 2654-65	6.4	334
206	Phase Behavior and Rheology of SWNTs in Superacids. <i>Macromolecules</i> , 2004 , 37, 154-160	5.5	302
205	Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic. <i>ACS Nano</i> , 2020 , 14, 6383-6406	16.7	290
204	High-performance carbon nanotube transparent conductive films by scalable dip coating. <i>ACS Nano</i> , 2012 , 6, 9737-44	16.7	254
203	Dissolution of Pristine Single Walled Carbon Nanotubes in Superacids by Direct Protonation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8794-8798	3.4	240
202	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018 , 12, 11756-11784	16.7	239
201	Carbon nanotube-based neat fibers. <i>Nano Today</i> , 2008 , 3, 24-34	17.9	227
200	Formation of beads-on-a-string structures during break-up of viscoelastic filaments. <i>Nature Physics</i> , 2010 , 6, 625-631	16.2	225
199	Covalently interconnected three-dimensional graphene oxide solids. <i>ACS Nano</i> , 2013 , 7, 7034-40	16.7	204
198	Neural stimulation and recording with bidirectional, soft carbon nanotube fiber microelectrodes. <i>ACS Nano</i> , 2015 , 9, 4465-74	16.7	194
197	Electrically insulating thermal nano-oils using 2D fillers. <i>ACS Nano</i> , 2012 , 6, 1214-20	16.7	189
196	Overcoming the "coffee-stain" effect by compositional Marangoni-flow-assisted drop-drying. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6536-42	3.4	189

195	Nanotubes as polymers. <i>Polymer</i> , 2009 , 50, 4979-4997	3.9	170
194	Liquid crystals of aqueous, giant graphene oxide flakes. <i>Soft Matter</i> , 2011 , 7, 11154	3.6	160
193	Large flake graphene oxide fibers with unconventional 100% knot efficiency and highly aligned small flake graphene oxide fibers. <i>Advanced Materials</i> , 2013 , 25, 4592-7	24	158
192	Single wall carbon nanotube fibers extruded from super-acid suspensions: Preferred orientation, electrical, and thermal transport. <i>Journal of Applied Physics</i> , 2004 , 95, 649-655	2.5	157
191	Kinetics of Nanotube and Microfiber Scission under Sonication. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20599-20605	3.8	154
190	High-resolution mapping of intracellular fluctuations using carbon nanotubes. <i>Science</i> , 2014 , 344, 1031-533	3.3	152
189	Biocompatible carbon nanotube-chitosan scaffold matching the electrical conductivity of the heart. <i>ACS Nano</i> , 2014 , 8, 9822-32	16.7	149
188	Dynamics of individual single-walled carbon nanotubes in water by real-time visualization. <i>Physical Review Letters</i> , 2006 , 96, 246104	7.4	129
187	Direct real-time monitoring of stage transitions in graphite intercalation compounds. <i>ACS Nano</i> , 2013 , 7, 2773-80	16.7	121
186	Diameter-dependent bending dynamics of single-walled carbon nanotubes in liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14219-23	11.5	115
185	Influence of Carbon Nanotube Characteristics on Macroscopic Fiber Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36189-36198	9.5	114
184	Dynamics of polymer translocation through nanopores: theory meets experiment. <i>Physical Review Letters</i> , 2006 , 96, 118103	7.4	113
183	Self-Assembly of Single-Walled Carbon Nanotubes into a Sheet by Drop Drying. <i>Advanced Materials</i> , 2006 , 18, 29-34	24	111
182	Isotropic-nematic phase transition of single-walled carbon nanotubes in strong acids. <i>Journal of the American Chemical Society</i> , 2006 , 128, 591-5	16.4	111
181	Spontaneous dissolution of ultralong single- and multiwalled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 3969-78	7.8	108
180	Graphene nanoribbons as an advanced precursor for making carbon fiber. <i>ACS Nano</i> , 2013 , 7, 1628-37	16.7	104
179	Brownian motion of stiff filaments in a crowded environment. <i>Science</i> , 2010 , 330, 1804-7	33.3	103
178	Vorticity alignment and negative normal stresses in sheared attractive emulsions. <i>Physical Review Letters</i> , 2004 , 92, 058303	7.4	95

177	A highly selective, one-pot purification method for single-walled carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 1249-52	3.4	94
176	A tensor-based measure for estimating blood damage. <i>Artificial Organs</i> , 2004 , 28, 1002-15	2.6	93
175	Formation of highly dense aligned ribbons and transparent films of single-walled carbon nanotubes directly from carpets. <i>ACS Nano</i> , 2008 , 2, 1871-8	16.7	90
174	A review of computational fluid dynamics analysis of blood pumps. <i>European Journal of Applied Mathematics</i> , 2009 , 20, 363-397	1	89
173	High-Ampacity Power Cables of Tightly-Packed and Aligned Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2014 , 24, 3241-3249	15.6	87
172	Free surface flows of polymer solutions with models based on the conformation tensor. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002 , 108, 363-409	2.7	85
171	Increased solubility, liquid-crystalline phase, and selective functionalization of single-walled carbon nanotube polyelectrolyte dispersions. <i>ACS Nano</i> , 2013 , 7, 4503-10	16.7	82
170	Vertically aligned single-walled carbon nanotubes as low-cost and high electrocatalytic counter electrode for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3157-61	9.5	82
169	Dry contact transfer printing of aligned carbon nanotube patterns and characterization of their optical properties for diameter distribution and alignment. <i>ACS Nano</i> , 2010 , 4, 1131-45	16.7	82
168	Radiative transfer in photocatalytic systems. <i>AIChE Journal</i> , 1996 , 42, 532-537	3.6	75
167	Competing mechanisms and scaling laws for carbon nanotube scission by ultrasonication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11599-604	11.5	73
166	Simple Length Determination of Single-Walled Carbon Nanotubes by Viscosity Measurements in Dilute Suspensions. <i>Macromolecules</i> , 2007 , 40, 4043-4047	5.5	72
165	Highly Exfoliated Water-Soluble Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006 , 18, 1520-1524	15.24	71
164	Thermoelectric power of p-doped single-wall carbon nanotubes and the role of phonon drag. <i>Physical Review Letters</i> , 2003 , 90, 065503	7.4	70
163	Structure-Property Relations in Carbon Nanotube Fibers by Downscaling Solution Processing. <i>Advanced Materials</i> , 2018 , 30, 1704482	24	69
162	Macroscopic nanotube fibers spun from single-walled carbon nanotube polyelectrolytes. <i>ACS Nano</i> , 2014 , 8, 9107-12	16.7	69
161	Nanoengineered carbon scaffolds for hydrogen storage. <i>Journal of the American Chemical Society</i> , 2009 , 131, 723-8	16.4	69
160	Can extensional viscosity be measured with opposed-nozzle devices?. <i>Rheologica Acta</i> , 1997 , 36, 429-448	3	69

159	Insights into the physics of spray coating of SWNT films. <i>Chemical Engineering Science</i> , 2010 , 65, 2000-2008	11.4	68
158	Synthesis of high aspect-ratio carbon nanotube "flying carpets" from nanostructured flake substrates. <i>Nano Letters</i> , 2008 , 8, 1879-83	11.5	64
157	Stable luminescence from individual carbon nanotubes in acidic, basic, and biological environments. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2626-33	16.4	63
156	Collapse of a semiflexible polymer in poor solvent. <i>Physical Review E</i> , 2004 , 69, 021916	2.4	62
155	Fluidic Microactuation of Flexible Electrodes for Neural Recording. <i>Nano Letters</i> , 2018 , 18, 326-335	11.5	61
154	Diameter-dependent solubility of single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 3063-72	16.7	60
153	Modeling the phase behavior of polydisperse rigid rods with attractive interactions with applications to single-walled carbon nanotubes in superacids. <i>Journal of Chemical Physics</i> , 2009 , 131, 084901	3.9	56
152	Catalyst-support interactions and their influence in water-assisted carbon nanotube carpet growth. <i>Carbon</i> , 2012 , 50, 2396-2406	10.4	50
151	Theory of linear viscoelasticity of semiflexible rods in dilute solution. <i>Journal of Rheology</i> , 2002 , 46, 1111-1154	11.54	50
150	Viscoelasticity of dilute solutions of semiflexible polymers. <i>Physical Review E</i> , 2001 , 64, 020802	2.4	49
149	High performance all-carbon thin film supercapacitors. <i>Journal of Power Sources</i> , 2015 , 274, 823-830	8.9	47
148	Stress transfer in polyacrylonitrile/carbon nanotube composite fibers. <i>Polymer</i> , 2014 , 55, 2734-2743	3.9	47
147	Three-dimensional patterning of solid microstructures through laser reduction of colloidal graphene oxide in liquid-crystalline dispersions. <i>Nature Communications</i> , 2015 , 6, 7157	17.4	47
146	Improved properties, increased production, and the path to broad adoption of carbon nanotube fibers. <i>Carbon</i> , 2021 , 171, 689-694	10.4	47
145	Experimental realization of crossover in shape and director field of nematic tactoids. <i>Physical Review E</i> , 2015 , 91, 042507	2.4	46
144	Room temperature gas sensing properties of ultrathin carbon nanotube films by surfactant-free dip coating. <i>Sensors and Actuators B: Chemical</i> , 2016 , 227, 128-134	8.5	46
143	Relationship of Extensional Viscosity and Liquid Crystalline Transition to Length Distribution in Carbon Nanotube Solutions. <i>Macromolecules</i> , 2016 , 49, 681-689	5.5	46
142	Graphene-based supercapacitor with carbon nanotube film as highly efficient current collector. <i>Nanotechnology</i> , 2014 , 25, 435405	3.4	46

141	Alignment dynamics of single-walled carbon nanotubes in pulsed ultrahigh magnetic fields. <i>ACS Nano</i> , 2009 , 3, 131-8	16.7	46
140	Temperature and Gas Pressure Effects in Vertically Aligned Carbon Nanotube Growth from FeMo Catalyst. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14041-14051	3.8	46
139	Environmental and synthesis-dependent luminescence properties of individual single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 2153-6	16.7	44
138	A micro-scale printable nanoclip for electrical stimulation and recording in small nerves. <i>Journal of Neural Engineering</i> , 2017 , 14, 036006	5	41
137	Dynamics of viscoelastic liquid filaments: Low capillary number flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008 , 150, 211-225	2.7	41
136	Hemolysis estimation in a centrifugal blood pump using a tensor-based measure. <i>Artificial Organs</i> , 2006 , 30, 539-47	2.6	41
135	Brownian dynamics algorithm for bead-rod semiflexible chain with anisotropic friction. <i>Journal of Chemical Physics</i> , 2005 , 122, 84903	3.9	41
134	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. <i>Nature Nanotechnology</i> , 2020 , 15, 164-166	28.7	40
133	A simple method for simulating general viscoelastic fluid flows with an alternate log-conformation formulation. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007 , 147, 189-199	2.7	40
132	Four-field Galerkin/least-squares formulation for viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006 , 140, 132-144	2.7	40
131	Super high-rate fabrication of high-purity carbon nanotube aerogels from floating catalyst method for oil spill cleaning. <i>Chemical Physics Letters</i> , 2018 , 693, 146-151	2.5	39
130	Mono- and Biexponential Luminescence Decays of Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14025-14028	3.8	39
129	Purification and Dissolution of Carbon Nanotube Fibers Spun from the Floating Catalyst Method. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37112-37119	9.5	38
128	Forward roll coating flows of viscoelastic liquids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005 , 130, 96-109	2.7	38
127	Do inner shells of double-walled carbon nanotubes fluoresce?. <i>Nano Letters</i> , 2009 , 9, 3282-9	11.5	36
126	Nonlinear photoluminescence imaging of isotropic and liquid crystalline dispersions of graphene oxide. <i>ACS Nano</i> , 2012 , 6, 8060-6	16.7	34
125	Theoretical modeling of microstructured liquids: a simple thermodynamic approach. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004 , 120, 101-135	2.7	34
124	Directional sensing based on flexible aligned carbon nanotube film nanocomposites. <i>Nanoscale</i> , 2018 , 10, 14938-14946	7.7	31

123	Lightweight, Flexible, High-Performance Carbon Nanotube Cables Made by Scalable Flow Coating. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4903-10	9.5	30
122	Transient stress-based and strain-based hemolysis estimation in a simplified blood pump. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013 , 29, 1148-60	2.6	30
121	An efficient algorithm for metric correction forces in simulations of linear polymers with constrained bond lengths. <i>Journal of Chemical Physics</i> , 2002 , 116, 1834-1838	3.9	30
120	Computational study of viscoelastic effects on liquid transfer during gravure printing. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013 , 199, 1-11	2.7	29
119	Carbon nanotube fiber terahertz polarizer. <i>Applied Physics Letters</i> , 2016 , 108, 141107	3.4	29
118	A multiscale, biophysical model of flow-induced red blood cell damage. <i>AIChE Journal</i> , 2014 , 60, 1509-1516	3.6	28
117	DNA sequencing by nanopores: advances and challenges. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 413001	3	27
116	Morphology dependent field emission of acid-spun carbon nanotube fibers. <i>Nanotechnology</i> , 2015 , 26, 105706	3.4	27
115	Impact of SWCNT processing on nanotube-silicon heterojunctions. <i>Nanoscale</i> , 2016 , 8, 7969-77	7.7	26
114	Evidence for adsorbate-enhanced field emission from carbon nanotube fibers. <i>Applied Physics Letters</i> , 2013 , 103, 053113	3.4	26
113	Single-walled carbon nanotubes in superacid: X-ray and calorimetric evidence for partly ordered H ₂ SO ₄ . <i>Physical Review B</i> , 2005 , 72,	3.3	26
112	High efficiency carbon nanotube thread antennas. <i>Applied Physics Letters</i> , 2017 , 111, 163109	3.4	25
111	Surfactant-assisted individualization and dispersion of boron nitride nanotubes. <i>Nanoscale Advances</i> , 2019 , 1, 1096-1103	5.1	24
110	Carbon Nanotube Fiber Field Emission Array Cathodes. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 2032-2038	1.3	23
109	Brownian dynamics simulations of single-wall carbon nanotube separation by type using dielectrophoresis. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7467-77	3.4	23
108	Antenna chemistry with metallic single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15340-7	16.4	23
107	A computational study of the effect of viscoelasticity on slot coating flow of dilute polymer solutions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008 , 149, 104-123	2.7	23
106	Multiscale simulation of viscoelastic free surface flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006 , 140, 87-107	2.7	23

105	Macroscopic self-standing SWCNT fibres as efficient electron emitters with very high emission current for robust cold cathodes. <i>Carbon</i> , 2013 , 52, 356-362	10.4	22
104	Nematic-Like Alignment in SWNT Thin Films from Aqueous Colloidal Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10232-10237	3.9	22
103	Self-assembly of ordered nanowires in biological suspensions of single-wall carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 189-96	16.7	22
102	Effect of potassium doping on electrical properties of carbon nanotube fibers. <i>Physical Review B</i> , 2011 , 84,	3.3	22
101	Carbon nanotube woven textile photodetector. <i>Physical Review Materials</i> , 2018 , 2,	3.2	22
100	All-solid-state cells with Li ₄ Ti ₅ O ₁₂ /carbon nanotube composite electrodes prepared by infiltration with argyrodite sulfide-based solid electrolytes via liquid-phase processing. <i>Journal of Power Sources</i> , 2019 , 417, 125-131	8.9	22
99	Scalable Purification of Boron Nitride Nanotubes via Wet Thermal Etching. <i>Chemistry of Materials</i> , 2019 , 31, 1520-1527	9.6	21
98	In Vivo Restoration of Myocardial Conduction With Carbon Nanotube Fibers. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e007256	6.4	21
97	Effect of the rheological properties of carbon nanotube dispersions on the processing and properties of transparent conductive electrodes. <i>Langmuir</i> , 2015 , 31, 5928-34	4	21
96	Dispersions of functionalized single-walled carbon nanotubes in strong acids: solubility and rheology. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3378-85	1.3	21
95	Direct Imaging of Carbon Nanotube Liquid-Crystalline Phase Development in True Solutions. <i>Langmuir</i> , 2017 , 33, 4011-4018	4	20
94	Dynamic Strengthening of Carbon Nanotube Fibers under Extreme Mechanical Impulses. <i>Nano Letters</i> , 2019 , 19, 3519-3526	11.5	20
93	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. <i>JPhys Materials</i> , 2020 , 3, 034009	4.2	20
92	Aligned-SWCNT film laminated nanocomposites: Role of the film on mechanical and electrical properties. <i>Carbon</i> , 2018 , 139, 680-687	10.4	19
91	Stage Transitions in Graphite Intercalation Compounds: Role of the Graphite Structure. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19246-19253	3.8	19
90	Demonstration of an Acid-Spun Single-Walled Nanotube Fiber Cathode. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1871-1877	1.3	19
89	Templating of self-alignment patterns of anisotropic gold nanoparticles on ordered SWNT macrostructures. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3718-24	9.5	19
88	Charged iodide in chains behind the highly efficient iodine doping in carbon nanotubes. <i>Physical Review Materials</i> , 2017 , 1,	3.2	19

87	Recycling Ultrathin Catalyst Layers for Multiple Single-Walled Carbon Nanotube Array Regrowth Cycles and Selectivity in Catalyst Activation. <i>Chemistry of Materials</i> , 2009 , 21, 1550-1556	9.6	18
86	Macroscopic weavable fibers of carbon nanotubes with giant thermoelectric power factor. <i>Nature Communications</i> , 2021 , 12, 4931	17.4	18
85	Carbon nanotube thin film patch antennas for wireless communications. <i>Applied Physics Letters</i> , 2019 , 114, 203102	3.4	17
84	Dissolution and Characterization of Boron Nitride Nanotubes in Superacid. <i>Langmuir</i> , 2017 , 33, 14340-14346	4.46	17
83	Coil-stretch transition and the breakdown of computations for viscoelastic fluid flow around a confined cylinder. <i>Journal of Rheology</i> , 2008 , 52, 197-223	4.1	17
82	The effect of shear-thickening on liquid transfer from an idealized gravure cell. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015 , 221, 55-65	2.7	16
81	Extraction of Boron Nitride Nanotubes and Fabrication of Macroscopic Articles Using Chlorosulfonic Acid. <i>Nano Letters</i> , 2018 , 18, 1615-1619	11.5	16
80	Effect of charge distribution on the translocation of an inhomogeneously charged polymer through a nanopore. <i>Journal of Chemical Physics</i> , 2008 , 128, 125104	3.9	16
79	A new, convenient way of imposing open-flow boundary conditions in two- and three-dimensional viscoelastic flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004 , 122, 159-176	2.7	15
78	High performance solid-state supercapacitors based on compressed graphene foam. <i>RSC Advances</i> , 2015 , 5, 84836-84839	3.7	14
77	High-performance graphene-based supercapacitors made by a scalable blade-coating approach. <i>Nanotechnology</i> , 2016 , 27, 165402	3.4	14
76	Bending behavior of CNT fibers and their scaling laws. <i>Soft Matter</i> , 2018 , 14, 8284-8292	3.6	14
75	Assessment of length and bundle distribution of dilute single-walled carbon nanotubes by viscosity measurements. <i>AIChE Journal</i> , 2014 , 60, 1499-1508	3.6	14
74	Synthesis and Crystal Structure of Gold Nanobelts. <i>Chemistry of Materials</i> , 2014 , 26, 1999-2004	9.6	14
73	Enlightening the ultrahigh electrical conductivities of doped double-wall carbon nanotube fibers by Raman spectroscopy and first-principles calculations. <i>Nanoscale</i> , 2016 , 8, 19668-19676	7.7	13
72	Noncontact conductivity and dielectric measurement for high throughput roll-to-roll nanomanufacturing. <i>Scientific Reports</i> , 2015 , 5, 17019	4.9	13
71	Cryogenic-temperature electron microscopy direct imaging of carbon nanotubes and graphene solutions in superacids. <i>Journal of Microscopy</i> , 2015 , 259, 16-25	1.9	13
70	Space-time least-squares finite element method for convection-reaction system with transformed variables. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 2562-2576	5.7	13

69	Polymer translocation through pores with complex geometries. <i>Journal of Chemical Physics</i> , 2010 , 133, 024902	3.9	13
68	Biocompatibility studies of macroscopic fibers made from carbon nanotubes: Implications for carbon nanotube macrostructures in biomedical applications. <i>Carbon</i> , 2021 , 173, 462-476	10.4	13
67	Chemical Decoration of Boron Nitride Nanotubes Using the Billups-Birch Reaction: Toward Enhanced Thermostable Reinforced Polymer and Ceramic Nanocomposites. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2421-2429	5.6	13
66	Theoretical analysis of selectivity mechanisms in molecular transport through channels and nanopores. <i>Journal of Chemical Physics</i> , 2015 , 142, 044705	3.9	12
65	Hybrid C-nanotubes/Si 3D nanostructures by one-step growth in a dual-plasma reactor. <i>Chemical Physics Letters</i> , 2012 , 539-540, 94-101	2.5	12
64	Effect of Functionalized Nanomaterials on the Rheology of Borate Cross-Linked Guar Gum. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3259-3264	3.9	12
63	Beads-on-string formation during filament pinch-off: Dynamics with the PTT model for non-affine motion. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2009 , 159, 64-71	2.7	12
62	Low temperature conductivity of carbon nanotube aggregates. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 475302	1.8	12
61	Revealing the Substructure of Single-Walled Carbon Nanotube Fibers. <i>Chemistry of Materials</i> , 2005 , 17, 6361-6368	9.6	12
60	Statistical length measurement method by direct imaging of carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6139-46	9.5	11
59	Electrochemical growth of nickel nanoparticles on carbon nanotubes fibers: Kinetic modeling and implications for an easy to handle platform for gas sensing device. <i>Electrochimica Acta</i> , 2015 , 157, 115-124	6.7	11
58	Viscoelastic flow in a two-dimensional collapsible channel. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010 , 165, 1204-1218	2.7	11
57	Visualization of individual DNA molecules in a small-scale coating flow. <i>Journal of Rheology</i> , 2004 , 48, 745-764	4.1	11
56	Highly Concentrated Aqueous Dispersions of Carbon Nanotubes for Flexible and Conductive Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3554-3560	3.9	10
55	Direct imaging of carbon nanotubes spontaneously filled with solvent. <i>Chemical Communications</i> , 2011 , 47, 1228-30	5.8	10
54	Single-walled carbon nanotubes shell decorating porous silicate materials: A general platform for studying the interaction of carbon nanotubes with photoactive molecules. <i>Chemical Science</i> , 2011 , 2, 1682	9.4	10
53	Stability of Chemically Doped Nanotube-Silicon Heterojunction Solar Cells: Role of Oxides at the Carbon-Silicon Interface. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5925-5932	6.1	9
52	Transport mechanism in granular Ni deposited on carbon nanotubes fibers. <i>Physical Review B</i> , 2012 , 86,	3.3	9

51	Axial thermal rotation of slender rods. <i>Physical Review Letters</i> , 2011 , 106, 188302	7.4	9
50	Models and finite element techniques for blood flow simulation. <i>International Journal of Computational Fluid Dynamics</i> , 2006 , 20, 175-181	1.2	9
49	Eco-friendly process toward collector- and binder-free, high-energy density electrodes for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1407-1416	2.6	8
48	Perovskite-Carbon Nanotube Light-Emitting Fibers. <i>Nano Letters</i> , 2020 , 20, 3178-3184	11.5	8
47	Macroscopically aligned carbon nanotubes for flexible and high-temperature electronics, optoelectronics, and thermoelectrics. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 063001	3	8
46	Substrate-Versatile Direct-Write Printing of Carbon Nanotube-Based Flexible Conductors, Circuits, and Sensors. <i>Advanced Functional Materials</i> , 2021 , 31, 2100245	15.6	8
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