

Alexander L Yarin

List of Publications by Citations

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254
papers

15,616
citations

56
h-index

121
g-index

271
ext. papers

17,157
ext. citations

5.6
avg, IF

6.91
L-index

#	Paper	IF	Citations
254	Bending instability of electrically charged liquid jets of polymer solutions in electrospinning. <i>Journal of Applied Physics</i> , 2000 , 87, 4531-4547	2.5	1899
253	Electrospinning jets and polymer nanofibers. <i>Polymer</i> , 2008 , 49, 2387-2425	3.9	1606
252	Bending instability in electrospinning of nanofibers. <i>Journal of Applied Physics</i> , 2001 , 89, 3018-3026	2.5	756
251	Electrostatic field-assisted alignment of electrospun nanofibres. <i>Nanotechnology</i> , 2001 , 12, 384-390	3.4	682
250	Taylor cone and jetting from liquid droplets in electrospinning of nanofibers. <i>Journal of Applied Physics</i> , 2001 , 90, 4836-4846	2.5	613
249	Impact of drops on solid surfaces: self-similar capillary waves, and splashing as a new type of kinematic discontinuity. <i>Journal of Fluid Mechanics</i> , 1995 , 283, 141-173	3.7	596
248	Renewable and metal-free carbon nanofibre catalysts for carbon dioxide reduction. <i>Nature Communications</i> , 2013 , 4,	17.4	506
247	Carbon Nanotubes Embedded in Oriented Polymer Nanofibers by Electrospinning. <i>Langmuir</i> , 2003 , 19, 7012-7020	4	457
246	Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1417	35.4	268
245	Formation of nanofiber crossbars in electrospinning. <i>Applied Physics Letters</i> , 2003 , 82, 973-975	3.4	239
244	Evaporation of acoustically levitated droplets. <i>Journal of Fluid Mechanics</i> , 1999 , 399, 151-204	3.7	192
243	Single drop impact onto liquid films: neck distortion, jetting, tiny bubble entrainment, and crown formation. <i>Journal of Fluid Mechanics</i> , 1999 , 385, 229-254	3.7	190
242	Single-walled carbon nanotubes embedded in oriented polymeric nanofibers by electrospinning. <i>Langmuir</i> , 2004 , 20, 9852-5	4	188
241	Buckling of jets in electrospinning. <i>Polymer</i> , 2007 , 48, 6064-6076	3.9	177
240	Transient and steady shapes of droplets attached to a surface in a strong electric field. <i>Journal of Fluid Mechanics</i> , 2004 , 516, 349-377	3.7	169
239	Desorption-limited mechanism of release from polymer nanofibers. <i>Langmuir</i> , 2008 , 24, 965-74	4	154
238	Validation and application of a novel elongational device for polymer solutions. <i>Journal of Rheology</i> , 2000 , 44, 595-616	4.1	152

237	On the acoustic levitation of droplets. <i>Journal of Fluid Mechanics</i> , 1998 , 356, 65-91	3.7	145
236	Material encapsulation and transport in core-shell micro/nanofibers, polymer and carbon nanotubes and micro/nanochannels. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2585-2599		143
235	The dynamics of thin liquid jets in air. <i>Journal of Fluid Mechanics</i> , 1984 , 140, 91-111	3.7	142
234	Branching in electrospinning of nanofibers. <i>Journal of Applied Physics</i> , 2005 , 98, 064501	2.5	139
233	Tensile deformation of electrospun nylon-6,6 nanofibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1482-1489	2.6	136
232	Self-Healing Reduced Graphene Oxide Films by Supersonic Kinetic Spraying. <i>Advanced Functional Materials</i> , 2014 , 24, 4986-4995	15.6	131
231	Fundamentals and Applications of Micro- and Nanofibers 2014 ,		128
230	Biohybrid nanosystems with polymer nanofibers and nanotubes. <i>Applied Microbiology and Biotechnology</i> , 2006 , 71, 387-93	5.7	127
229	Electrospinning core-shell nanofibers for interfacial toughening and self-healing of carbon-fiber/epoxy composites. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 1383-1393	2.9	124
228	A review on corrosion-protective extrinsic self-healing: Comparison of microcapsule-based systems and those based on core-shell vascular networks. <i>Chemical Engineering Journal</i> , 2018 , 344, 206-220	14.7	123
227	Self-Junctioned Copper Nanofiber Transparent Flexible Conducting Film via Electrospinning and Electroplating. <i>Advanced Materials</i> , 2016 , 28, 7149-54	24	120
226	Encapsulation of self-healing materials by coelectrospinning, emulsion electrospinning, solution blowing and intercalation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9138		119
225	Viscoelastic electrospun jets: Initial stresses and elongational rheometry. <i>Polymer</i> , 2008 , 49, 1651-1658	3.9	116
224	Drop impact, spreading, splashing, and penetration into electrospun nanofiber mats. <i>Langmuir</i> , 2010 , 26, 9516-23	4	104
223	Evolution of a compound droplet attached to a core-shell nozzle under the action of a strong electric field. <i>Physics of Fluids</i> , 2006 , 18, 062101	4.4	103
222	Self-healing transparent core-shell nanofiber coatings for anti-corrosive protection. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7045	13	95
221	Failure modes of electrospun nanofibers. <i>Applied Physics Letters</i> , 2003 , 82, 3958-3960	3.4	91
220	Highly flexible, stretchable, patternable, transparent copper fiber heater on a complex 3D surface. <i>NPG Asia Materials</i> , 2017 , 9, e347-e347	10.3	81

219	Highly flexible transparent self-healing composite based on electrospun core-shell nanofibers produced by coaxial electrospinning for anti-corrosion and electrical insulation. <i>Nanoscale</i> , 2015 , 7, 17778-85	7.7	80
218	Solution blowing of soy protein fibers. <i>Biomacromolecules</i> , 2011 , 12, 2357-63	6.9	80
217	Highly flexible, stretchable, wearable, patternable and transparent heaters on complex 3D surfaces formed from supersonically sprayed silver nanowires. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6677-6685	13	79
216	Hybrid self-healing matrix using core-shell nanofibers and capsuleless microdroplets. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10461-8	9.5	76
215	Collision Phenomena in Liquids and Solids 2017 ,		76
214	Solution-Blown Core-Shell Self-Healing Nano- and Microfibers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4955-62	9.5	75
213	Stability of multiple steady states of convection in laterally heated cavities. <i>Journal of Fluid Mechanics</i> , 1999 , 388, 315-334	3.7	73
212	Recent progress in interfacial toughening and damage self-healing of polymer composites based on electrospun and solution-blown nanofibers: An overview. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 2225-2237	2.9	71
211	Controlled Release of Ciprofloxacin from Core-Shell Nanofibers with Monolithic or Blended Core. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1393-404	5.6	69
210	Pool boiling on nano-textured surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 99-111	4.9	69
209	Thorny devil nanotextured fibers: the way to cooling rates on the order of 1 kW/cm ² . <i>Langmuir</i> , 2011 , 27, 215-26	4	68
208	Self-Healing Nanofiber-Reinforced Polymer Composites. 1. Tensile Testing and Recovery of Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19546-54	9.5	67
207	Nano-encapsulated smart tunable phase change materials. <i>Soft Matter</i> , 2011 , 7, 8823	3.6	67
206	Industrial-Scale Solution Blowing of Soy Protein Nanofibers. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 323-333	3.9	65
205	Chaotic rotation of triaxial ellipsoids in simple shear flow. <i>Journal of Fluid Mechanics</i> , 1997 , 340, 83-100	3.7	65
204	Mechanistic examination of protein release from polymer nanofibers. <i>Molecular Pharmaceutics</i> , 2009 , 6, 641-7	5.6	64
203	Influence of elastic stresses on the capillary breakup of jets of dilute polymer solutions. <i>Fluid Dynamics</i> , 1984 , 19, 21-29	0.7	61
202	Theoretical and experimental investigation of physical mechanisms responsible for polymer nanofiber formation in solution blowing. <i>Polymer</i> , 2015 , 56, 452-463	3.9	60

201	Coalescence of two drops on partially wettable substrates. <i>Langmuir</i> , 2012 , 28, 3791-8	4	60
200	Meltblowing: I-basic physical mechanisms and threadline model. <i>Journal of Applied Physics</i> , 2010 , 108, 034912	2.5	58
199	Long-Term Sustained Ciprofloxacin Release from PMMA and Hydrophilic Polymer Blended Nanofibers. <i>Molecular Pharmaceutics</i> , 2016 , 13, 295-305	5.6	56
198	Nanotextured pillars of electrosprayed bismuth vanadate for efficient photoelectrochemical water splitting. <i>Langmuir</i> , 2015 , 31, 3727-37	4	54
197	Buckling of thin liquid jets. <i>Journal of Fluid Mechanics</i> , 1993 , 253, 593	3.7	54
196	Advances in self-healing materials based on vascular networks with mechanical self-repair characteristics. <i>Advances in Colloid and Interface Science</i> , 2018 , 252, 21-37	14.3	53
195	Needleless electrospinning: Electrically driven instability and multiple jetting from the free surface of a spherical liquid layer. <i>Journal of Applied Physics</i> , 2009 , 106, 114910	2.5	53
194	Stimuli-responsive copolymers of n-isopropyl acrylamide with enhanced longevity in water for micro- and nanofluidics, drug delivery and non-woven applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4732		53
193	Spongy Gels by a Top-Down Approach from Polymer Fibrous Sponges. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3285-3288	16.4	52
192	Self-healing Nanofiber-Reinforced Polymer Composites. 2. Delamination/Debonding and Adhesive and Cohesive Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19555-61	9.5	52
191	Intercalation of anti-inflammatory drug molecules within TiO ₂ nanotubes. <i>RSC Advances</i> , 2013 , 3, 17380	3.7	51
190	Drop impacts on electrospun nanofiber membranes. <i>Soft Matter</i> , 2012 , 8, 3957	3.6	51
189	Meltblowing: II-linear and nonlinear waves on viscoelastic polymer jets. <i>Journal of Applied Physics</i> , 2010 , 108, 034913	2.5	51
188	Age- and flow-dependency of salivary viscoelasticity. <i>Journal of Dental Research</i> , 2007 , 86, 281-5	8.1	51
187	Nonisothermal drop impact and evaporation on polymer nanofiber mats. <i>Physical Review E</i> , 2011 , 83, 036305	2.4	49
186	Supersonic nanoblowing: a new ultra-stiff phase of nylon 6 in 20B0 nm confinement. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 3491	7.1	47
185	Two-stage desorption-controlled release of fluorescent dye and vitamin from solution-blown and electrospun nanofiber mats containing porogens. <i>Molecular Pharmaceutics</i> , 2013 , 10, 4509-26	5.6	46
184	Elongational and shear rheology of carbon nanotube suspensions. <i>Rheologica Acta</i> , 2009 , 48, 597-609	2.3	46

183	Application of solution-blown 2050 nm nanofibers in filtration of nanoparticles: The efficient van der Waals collectors. <i>Journal of Membrane Science</i> , 2015 , 485, 132-150	9.6	43
182	Production of Flexible Transparent Conducting Films of Self-Fused Nanowires via One-Step Supersonic Spraying. <i>Advanced Functional Materials</i> , 2017 , 27, 1602548	15.6	43
181	Antibacterial activity of photocatalytic electrospun titania nanofiber mats and solution-blown soy protein nanofiber mats decorated with silver nanoparticles. <i>Catalysis Communications</i> , 2013 , 34, 35-40	3.2	43
180	Shear and extensional rheological investigations in solutions of grafted and ungrafted polysaccharides. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 3200-3209	2.9	41
179	Multifunctional Platform Based on Electrospun Nanofibers and Plasmonic Hydrogel: A Smart Nanostructured Pillow for Near-Infrared Light-Driven Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54328-54342	9.5	41
178	Pool boiling of Novec 7300 and self-rewetting fluids on electrically-assisted supersonically solution-blown, copper-plated nanofibers. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 83-93	4.9	39
177	Spreading of a viscous drop due to gravity and capillarity on a horizontal or an inclined dry wall. <i>Physics of Fluids</i> , 2002 , 14, 118-132	4.4	39
176	Biopolymer-Based Nanofiber Mats and Their Mechanical Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15104-15113	3.9	38
175	Fatigue of Self-Healing Nanofiber-based Composites: Static Test and Subcritical Crack Propagation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18462-70	9.5	36
174	Pool boiling on nano-textured surfaces comprised of electrically-assisted supersonically solution-blown, copper-plated nanofibers: Experiments and theory. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 87, 521-535	4.9	35
173	Biodegradable and biocompatible soy protein/polymer/adhesive sticky nano-textured interfacial membranes for prevention of esca fungi invasion into pruning cuts and wounds of vines. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2147-2162	7.3	35
172	Lines of dense nanoparticle colloidal suspensions evaporating on a flat surface: formation of non-uniform dried deposits. <i>Journal of Colloid and Interface Science</i> , 2006 , 294, 343-54	9.3	35
171	Effect of Chemical and Physical Cross-Linking on Tensile Characteristics of Solution-Blown Soy Protein Nanofiber Mats. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15109-15121	3.9	34
170	Dynamic electrowetting-on-dielectric (DEWOD) on unstretched and stretched teflon. <i>Langmuir</i> , 2013 , 29, 7758-67	4	34
169	Self-healing three-dimensional bulk materials based on core-shell nanofibers. <i>Chemical Engineering Journal</i> , 2018 , 334, 1093-1100	14.7	33
168	Drop impact cooling enhancement on nano-textured surfaces. Part I: Theory and results of the ground (1 g) experiments. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 1095-1106	4.9	33
167	Dean vortices-induced enhancement of mass transfer through an interface separating two immiscible liquids. <i>Physics of Fluids</i> , 2003 , 15, 330-347	4.4	33
166	Pool boiling of Novec 7300 and DI water on nano-textured heater covered with supersonically-blown or electrospun polymer nanofibers. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 482-490	4.9	32

165	Elongational behavior of gelled propellant simulants. <i>Journal of Rheology</i> , 2004 , 48, 101-116	4.1	32
164	Numerical prediction of the effect of uptake velocity on three-dimensional structure, porosity and permeability of meltblown nonwoven laydown. <i>Polymer</i> , 2016 , 85, 19-27	3.9	31
163	Wearable, Stretchable, Transparent All-in-One Soft Sensor Formed from Supersonically Sprayed Silver Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40232-40242	9.5	30
162	Drop impact cooling enhancement on nano-textured surfaces. Part II: Results of the parabolic flight experiments [zero gravity (0g) and supergravity (1.8g)]. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 1107-1114	4.9	30
161	Stress-strain dependence for soy-protein nanofiber mats. <i>Journal of Applied Physics</i> , 2012 , 111, 044906	2.5	30
160	Foam consolidation and drainage. <i>Langmuir</i> , 2012 , 28, 5323-30	4	29
159	Room-temperature, open-air, wet intercalation of liquids, surfactants, polymers and nanoparticles within nanotubes and microchannels. <i>Journal of Materials Chemistry</i> , 2008 , 18, 696-702		28
158	Reopening dentistry after COVID-19: Complete suppression of aerosolization in dental procedures by viscoelastic Medusa Gorgo. <i>Physics of Fluids</i> , 2020 , 32, 083111	4.4	28
157	Models of polymer solutions in electrified jets and solution blowing. <i>Reviews of Modern Physics</i> , 2020 , 92,	40.5	28
156	Wearable transparent thermal sensors and heaters based on metal-plated fibers and nanowires. <i>Nanoscale</i> , 2018 , 10, 19825-19834	7.7	28
155	Liquid drop growth on a fiber. <i>AIChE Journal</i> , 2006 , 52, 217-227	3.6	27
154	Supersonic Cold Spraying for Energy and Environmental Applications: One-Step Scalable Coating Technology for Advanced Micro- and Nanotextured Materials. <i>Advanced Materials</i> , 2020 , 32, e1905028	24	27
153	Blood rheology in shear and uniaxial elongation. <i>Rheologica Acta</i> , 2016 , 55, 901-908	2.3	27
152	Natural Biopolymer-Based Triboelectric Nanogenerators via Fast, Facile, Scalable Solution Blowing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37749-37759	9.5	27
151	Blowing drops off a filament. <i>Soft Matter</i> , 2013 , 9, 6053	3.6	26
150	Theoretical and experimental investigation of aqueous liquids contained in carbon nanotubes. <i>Journal of Applied Physics</i> , 2005 , 97, 124309	2.5	26
149	Onset of folding in plane liquid films. <i>Journal of Fluid Mechanics</i> , 1996 , 307, 85-99	3.7	26
148	Silver-decorated and palladium-coated copper-electroplated fibers derived from electrospun polymer nanofibers. <i>Chemical Engineering Journal</i> , 2017 , 327, 336-342	14.7	24

147	Mechanoresponsive polymer nanoparticles, nanofibers and coatings as drug carriers and components of microfluidic devices. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8269		24
146	High-speed video analysis of forward and backward spattered blood droplets. <i>Forensic Science International</i> , 2017 , 276, 134-141	2.6	23
145	Sustainable Nanotextured Wave Energy Harvester Based on Ferroelectric Fatigue-Free and Flexoelectricity-Enhanced Piezoelectric P(VDF-TrFE) Nanofibers with BaSrTiO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2020 , 30, 2001150	15.6	22
144	Oxidation-resistant metallized nanofibers as transparent conducting films and heaters. <i>Acta Materialia</i> , 2018 , 143, 174-180	8.4	22
143	Control of Direct Written Ink Droplets Using Electrowetting. <i>Langmuir</i> , 2019 , 35, 11023-11036	4	22
142	Electrostatic Transparent Air Filter Membranes Composed of Metallized Microfibers for Particulate Removal. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26323-26332	9.5	21
141	Prediction of blood back spatter from a gunshot in bloodstain pattern analysis. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	21
140	Release of Self-Healing Agents in a Material: What Happens Next?. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17449-17455	9.5	20
139	Self-healing of nanofiber-based composites in the course of stretching. <i>Polymer</i> , 2016 , 103, 180-188	3.9	20
138	Supersonically blown ultrathin thorny devil nanofibers for efficient air cooling. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13657-66	9.5	20
137	Shear and extensional investigations in solutions of grafted/ungrafted amylopectin and polyacrylamide. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 2773-2782	2.9	20
136	Computer simulation of the SARS-CoV-2 contamination risk in a large dental clinic. <i>Physics of Fluids</i> , 2021 , 33, 033328	4.4	20
135	Self-Cleaning Anticondensing Glass via Supersonic Spraying of Silver Nanowires, Silica, and Polystyrene Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35325-35332	9.5	19
134	Pressure-driven fluidic delivery through carbon tube bundles. <i>Lab on A Chip</i> , 2008 , 8, 152-60	7.2	19
133	Supersonically Sprayed Washable, Wearable, Stretchable, Hydrophobic, and Antibacterial rGO/AgNW Fabric for Multifunctional Sensors and Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10013-10025	9.5	19
132	A blister-like soft nano-textured thermo-pneumatic actuator as an artificial muscle. <i>Nanoscale</i> , 2018 , 10, 16591-16600	7.7	18
131	Hydrodynamics of back spatter by blunt bullet gunshot with a link to bloodstain pattern analysis. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	18
130	Programmable soft robotics based on nano-textured thermo-responsive actuators. <i>Nanoscale</i> , 2019 , 11, 2065-2070	7.7	17

129	Ion-specific effects in foams. <i>Advances in Colloid and Interface Science</i> , 2015 , 225, 98-113	14.3	17
128	Self-Healing Nanotextured Vascular-like Materials: Mode I Crack Propagation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27223-27231	9.5	17
127	Bio-inspired, colorful, flexible, defrostable light-scattering hybrid films for the effective distribution of LED light. <i>Nanoscale</i> , 2017 , 9, 9139-9147	7.7	17
126	Stationary d.c. streaming due to shape oscillations of a droplet and its effect on mass transfer in liquid-liquid systems. <i>Journal of Fluid Mechanics</i> , 2001 , 444, 321-342	3.7	17
125	Spongy Gels by a Top-Down Approach from Polymer Fibrous Sponges. <i>Angewandte Chemie</i> , 2017 , 129, 3333-3336	3.6	16
124	Pool boiling in deep and shallow vessels and the effect of surface nano-texture and self-wetting. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 857-866	4.9	16
123	Effect of nano-textured heater surfaces on evaporation at a single meniscus. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 2444-2450	4.9	15
122	Self-Healing Nanotextured Vascular Engineering Materials. <i>Advanced Structured Materials</i> , 2019 ,	0.6	15
121	Breakup mechanisms of electrostatic atomization of corn oil and diesel fuel. <i>Journal of Applied Physics</i> , 2010 , 108, 064910	2.5	15
120	Bubble nucleation during devolatilization of polymer melts. <i>AIChE Journal</i> , 1999 , 45, 2590-2605	3.6	15
119	Surface-tension-driven flows at low Reynolds number arising in optoelectronic technology. <i>Journal of Fluid Mechanics</i> , 1995 , 286, 173-200	3.7	15
118	Nano-textured copper oxide nanofibers for efficient air cooling. <i>Journal of Applied Physics</i> , 2016 , 119, 065306	2.5	15
117	Supersonically Sprayed Copper-Nickel Microparticles as Flexible and Printable Thin-Film High-Temperature Heaters. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700075	4.6	14
116	Transparent Body-Attachable Multifunctional Pressure, Thermal, and Proximity Sensor and Heater. <i>Scientific Reports</i> , 2020 , 10, 2701	4.9	14
115	Three-dimensional instability of a two-layer Dean flow. <i>Physics of Fluids</i> , 2001 , 13, 3185-3195	4.4	14
114	Theoretical and experimental investigation of forward spatter of blood from a gunshot. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	14
113	Facile processes for producing robust, transparent, conductive platinum nanofiber mats. <i>Nanoscale</i> , 2017 , 9, 6076-6084	7.7	13
112	Swing-like pool boiling on nano-textured surfaces for microgravity applications related to cooling of high-power microelectronics. <i>Npj Microgravity</i> , 2017 , 3, 9	5.3	13

111	Determining the region of origin of blood spatter patterns considering fluid dynamics and statistical uncertainties. <i>Forensic Science International</i> , 2019 , 298, 323-331	2.6	13
110	Modeling of Droplet Impact onto Polarized and Nonpolarized Dielectric Surfaces. <i>Langmuir</i> , 2018 , 34, 10169-10180	4	13
109	Electrospinning of a blend of a liquid crystalline polymer with poly(ethylene oxide): Vectran nanofiber mats and their mechanical properties. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 351-358	7.1	13
108	Progress and potential of electrospinning-derived substrate-free and binder-free lithium-ion battery electrodes. <i>Chemical Engineering Journal</i> , 2022 , 430, 132876	14.7	13
107	On the nature of the superspreaders. <i>Advances in Colloid and Interface Science</i> , 2019 , 263, 1-18	14.3	13
106	Dynamic hydrophobicity of superhydrophobic PTFE-SiO ₂ electrospun fibrous membranes. <i>Journal of Membrane Science</i> , 2021 , 619, 118810	9.6	13
105	Highly transparent, conducting, body-attachable metallized fibers as a flexible and stretchable film. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 1127-1136	5.7	12
104	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16200-16208	9.5	12
103	Numerical modeling and experimental study of solution-blown nonwovens formed on a rotating drum. <i>Polymer</i> , 2016 , 105, 255-263	3.9	12
102	Enhanced release of liquid from carbon nanotubes due to entrainment by an air layer. <i>Nanotechnology</i> , 2009 , 20, 095711	3.4	12
101	Point-bonded polymer nonwovens and their rupture in stretching. <i>Polymer</i> , 2018 , 146, 209-221	3.9	12
100	Faradaic reactions—mechanisms and parameters in charging of oils. <i>Electrochimica Acta</i> , 2018 , 268, 173-186	11	11
99	Strong squeeze flows of yield-stress fluids: The effect of normal deviatoric stresses. <i>Journal of Rheology</i> , 2013 , 57, 719-742	4.1	11
98	Reusable Filters Augmented with Heating Microfibers for Antibacterial and Antiviral Sterilization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 857-867	9.5	11
97	Exponential vaporization fronts and critical heat flux in pool boiling. <i>International Communications in Heat and Mass Transfer</i> , 2018 , 98, 171-176	5.8	11
96	Prevention of mold invasion by eco-friendly lignin/polycaprolactone nanofiber membranes for amelioration of public hygiene. <i>Cellulose</i> , 2017 , 24, 951-965	5.5	10
95	Supersonically sprayed thermal barrier layers using clay micro-particles. <i>Applied Clay Science</i> , 2016 , 120, 142-146	5.2	10
94	Trains of Taylor bubbles over hot nano-textured mini-channel surface. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 93, 827-833	4.9	10

93	Electrostatically Sprayed Nanostructured Electrodes for Energy Conversion and Storage Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2008181	15.6	10
92	Evidence of Faradaic Reactions in Electrostatic Atomizers. <i>Langmuir</i> , 2017 , 33, 1375-1384	4	9
91	Forced vibration of a heated wire subjected to nucleate boiling. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 44-51	4.9	9
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