

Alexander L Yarin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Air bubble entrapment during drop impact on solid and liquid surfaces. <i>International Journal of Multiphase Flow</i> , 2022 , 149, 103974	3.6	0
253	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
252	Wearable multifunctional soft sensor and contactless 3D scanner using supersonically sprayed silver nanowires, carbon nanotubes, zinc oxide, and PEDOT:PSS. <i>NPG Asia Materials</i> , 2022 , 14,	10.3	6
251	Dielectrophoretic stretching of drops of silicone oil: Experiments and multi-physical modeling. <i>Physics of Fluids</i> , 2022 , 34, 042108	4.4	1
250	Pool boiling enhancement via nanotexturing and self-propelled swing motion for bubble shedding. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 133, 105934	5.8	0
249	Review of recent progress in electrospinning-derived freestanding and binder-free electrodes for supercapacitors. <i>Coordination Chemistry Reviews</i> , 2022 , 460, 214466	23.2	6
248	Performance Enhancement of Soft Nanotextured Thermopneumatic Actuator by Incorporating Silver Nanowires into Elastomer Body. <i>Soft Robotics</i> , 2021 , 8, 711-719	9.2	1
247	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
246	Coalescence of sessile droplets driven by electric field in the jetting-based 3D printing framework. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	4
245	Experimental and numerical study of blood backspatter interaction with firearm propellant gases. <i>Physics of Fluids</i> , 2021 , 33, 043319	4.4	2
244	Blood backspatter interaction with propellant gases. <i>Physics of Fluids</i> , 2021 , 33, 043318	4.4	2
243	Water interaction with dielectric surface: A combined ab initio modeling and experimental study. <i>Physics of Fluids</i> , 2021 , 33, 042012	4.4	3
242	Polymer melting temperatures and crystallinity at different pressure applied. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50936	2.9	2
241	Drop impact onto polarized dielectric surface for controlled coating. <i>Physics of Fluids</i> , 2021 , 33, 062101	4.4	9
240	Dynamic hydrophobicity of superhydrophobic PTFE-SiO ₂ electrospun fibrous membranes. <i>Journal of Membrane Science</i> , 2021 , 619, 118810	9.6	13
239	Wetting for self-healing and electrowetting for additive manufacturing. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 51, 101378	7.6	6
238	Reusable Filters Augmented with Heating Microfibers for Antibacterial and Antiviral Sterilization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 857-867	9.5	11

237	Electrostatically Sprayed Nanostructured Electrodes for Energy Conversion and Storage Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2008181	15.6	10
236	The particle image velocimetry of vortical electrohydrodynamic flows of oil near a high-voltage electrode tip. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	4
235	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
234	Solution-Blown Poly(hydroxybutyrate) and Poly-L-lysine Submicro- and Microfiber-Based Sustainable Nonwovens with Antimicrobial Activity for Single-Use Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3980-3992	5.5	1
233	Electrowetting-assisted direct ink writing for low-viscosity liquids. <i>Journal of Manufacturing Processes</i> , 2021 , 69, 173-180	5	3
232	Reusable and durable electrostatic air filter based on hybrid metallized microfibers decorated with metal-organic framework nanocrystals. <i>Journal of Materials Science and Technology</i> , 2021 , 85, 44-55	9.1	3
231	Evolution and Shape of Two-Dimensional Stokesian Drops under the Action of Surface Tension and Electric Field: Linear and Nonlinear Theory and Experiment. <i>Langmuir</i> , 2021 , 37, 11429-11446	4	3
230	Metamorphosis of trilobite-like drops on a surface: Electrically driven fingering. <i>Physics of Fluids</i> , 2021 , 33, 124107	4.4	3
229	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
228	Theoretical and experimental study of dissolution mechanism of cellulose. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113450	6	8
227	Transparent Metallized Microfibers as Recyclable Electrostatic Air Filters with Ionization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25266-25275	9.5	9
226	Mutual Sliding Motion of Wrapped Filaments for Biomedical and Engineering Applications. <i>Langmuir</i> , 2020 , 36, 4357-4369	4	
225	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16200-16208	9.5	12
224	Transparent Body-Attachable Multifunctional Pressure, Thermal, and Proximity Sensor and Heater. <i>Scientific Reports</i> , 2020 , 10, 2701	4.9	14
223	Novel nanofluidic and microfluidic devices and their applications. <i>Current Opinion in Chemical Engineering</i> , 2020 , 29, 17-25	5.4	0
222	Modeling Polymer Crystallization Kinetics in the Meltblowing Process. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 399-412	3.9	5
221	Prediction of crystallinity of spunbond webs. <i>Journal of Applied Physics</i> , 2020 , 128, 205101	2.5	3
220	Modeling of spunbond formation process of polymer nonwovens. <i>Polymer</i> , 2020 , 187, 121902	3.9	6

219	Mechanical behavior of sintered submicron glass fiber mats. <i>International Journal of Mechanical Sciences</i> , 2020 , 170, 105354	5.5	2
218	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
217	Dynamics of electrospun hydrogel filaments in oscillatory microchannel flows: A theoretical and experimental approach. <i>Physics of Fluids</i> , 2020 , 32, 072008	4.4	3
216	Flexible heat-spreading and air-cooling films using nickel-electroplated nanotextured fibers. <i>Chemical Engineering Science</i> , 2020 , 227, 115951	4.4	4
215	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
214	Theoretical model of swirling thick film flow inside converging nozzles of various geometries. <i>Fuel</i> , 2020 , 280, 118215	7.1	4
213	Electrically driven toroidal Moffatt vortices: experimental observations. <i>Journal of Fluid Mechanics</i> , 2020 , 900,	3.7	2
212	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
211	Models of polymer solutions in electrified jets and solution blowing. <i>Reviews of Modern Physics</i> , 2020 , 92,	40.5	28
210	In vitro evaluation of Pt-coated electrospun nanofibers for endovascular coil embolization. <i>Acta Biomaterialia</i> , 2020 , 101, 285-292	10.8	2
209	Hydroentangled polymer nonwovens: Prediction of jet streaks and surface roughness. <i>Polymer</i> , 2019 , 180, 121731	3.9	1
208	Cohesion energy of thermally-bonded polyethylene terephthalate nonwovens: Experiments and theory. <i>Polymer Testing</i> , 2019 , 78, 105984	4.5	3
207	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
206	Programmable soft robotics based on nano-textured thermo-responsive actuators. <i>Nanoscale</i> , 2019 , 11, 2065-2070	7.7	17
205	Hydroentanglement of polymer nonwovens. 1: Experimental and theoretical/numerical framework. <i>Polymer</i> , 2019 , 164, 191-204	3.9	7
204	Implications of two backward blood spatter models based on fluid dynamics for bloodstain pattern analysis. <i>Forensic Science International</i> , 2019 , 301, 299-305	2.6	7
203	Theoretical model for swirling thin film flows inside nozzles with converging-diverging shapes. <i>Applied Mathematical Modelling</i> , 2019 , 76, 607-616	4.5	4
202	Theoretical and experimental study of punched laminate composites protected by outer paper layer. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 128, 117-136	5	2

201	Pressure field generated in porous medium by air jet injected through the surface. <i>Physics of Fluids</i> , 2019 , 31, 046601	4.4	
200	Fabrication of Vascular Nanofiber Networks with Encapsulated Self-Healing Agents for Mechanical Recovery. <i>Advanced Structured Materials</i> , 2019 , 77-119	0.6	1
199	Concluding Remarks and Future Perspectives. <i>Advanced Structured Materials</i> , 2019 , 253-255	0.6	1
198	Healing Agents Used for Mechanical Recovery in Nanotextured Systems. <i>Advanced Structured Materials</i> , 2019 , 25-36	0.6	
197	Macroscopic Observations of Physicochemical Aspects of Self-Healing Phenomena. <i>Advanced Structured Materials</i> , 2019 , 37-74	0.6	
196	Self-Healing of Mechanical Properties: Evaluation by Tensile Testing. <i>Advanced Structured Materials</i> , 2019 , 165-194	0.6	
195	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
194	Failure, Cracks, Fracture, Fatigue, Delamination, Adhesion, and Cohesion. <i>Advanced Structured Materials</i> , 2019 , 137-163	0.6	
193	Self-Healing Nanotextured Vascular Engineering Materials. <i>Advanced Structured Materials</i> , 2019 ,	0.6	15
192	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
191	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
190	Self-similar turbulent vortex rings: interaction of propellant gases with blood backspatter and the transport of gunshot residue. <i>Journal of Fluid Mechanics</i> , 2019 , 876, 859-880	3.7	5
189	Hydrodynamics of forward blood spattering caused by a bullet of general shape. <i>Physics of Fluids</i> , 2019 , 31, 084103	4.4	6
188	Ultra-fast bull's eye-like self-healing using CNT heater. <i>Polymer</i> , 2019 , 180, 121710	3.9	4
187	Drop deposition affected by electrowetting in direct ink writing process. <i>Journal of Applied Physics</i> , 2019 , 126, 035302	2.5	6
186	Theoretical and Numerical Study of Formation of Near-Electrode Layers in Ionic Conductor Liquids at High Voltages. <i>Langmuir</i> , 2019 , 35, 11080-11088	4	3
185	Control of Direct Written Ink Droplets Using Electrowetting. <i>Langmuir</i> , 2019 , 35, 11023-11036	4	22
184	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

183	Slow Discharge Theory and Calculation of the Potential Drop across the Compact Layer at High Electrode Voltages. <i>Langmuir</i> , 2019 , 35, 14458-14464	4	1
182	Characterization of Self-Healing Phenomena on Micro- and Nanoscale Level. <i>Advanced Structured Materials</i> , 2019 , 121-134	0.6	
181	Self-Healing at Ply Surfaces: Adhesion, Cohesion, and Interfacial Toughening Evaluated Using Blister and Impact Tests. <i>Advanced Structured Materials</i> , 2019 , 195-228	0.6	
180	Numerical investigation of ionic conductor liquid charging at low to high voltages. <i>Physics of Fluids</i> , 2019 , 31, 021201	4.4	7
179	Hydroentanglement of Polymer Nonwovens 2: Simulation of multiple polymer fibers and prediction of entanglement. <i>Polymer</i> , 2019 , 164, 205-216	3.9	6
178	On the nature of the superspreaders. <i>Advances in Colloid and Interface Science</i> , 2019 , 263, 1-18	14.3	13
177	A data set of bloodstain patterns for teaching and research in bloodstain pattern analysis: Gunshot backspatters. <i>Data in Brief</i> , 2019 , 22, 269-278	1.2	5
176	Eco-friendly lignin nanofiber mat for protection of wood against attacks by environmentally hazardous fungi. <i>Polymer Testing</i> , 2019 , 74, 113-118	4.5	5
175	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
174	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
173	Polymer adhesion in heat-treated nonwovens. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46165	2.9	4
172	Faradaic reactions—mechanisms and parameters in charging of oils. <i>Electrochimica Acta</i> , 2018 , 268, 173-186	7	11
171	Packing of metalized polymer nanofibers for aneurysm embolization. <i>Nanoscale</i> , 2018 , 10, 6589-6601	7.7	6
170	Friction coefficient of an intact free liquid jet moving in air. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	3
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	Oxidation-resistant metallized nanofibers as transparent conducting films and heaters. <i>Acta Materialia</i> , 2018 , 143, 174-180	8.4	22
167	A blister-like soft nano-textured thermo-pneumatic actuator as an artificial muscle. <i>Nanoscale</i> , 2018 , 10, 16591-16600	7.7	18
166	Modeling of Droplet Impact onto Polarized and Nonpolarized Dielectric Surfaces. <i>Langmuir</i> , 2018 , 34, 10169-10180	4	13

165	Pool boiling in deep and shallow vessels and the effect of surface nano-texture and self-rewetting. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 857-866	4.9	16
164	Theoretical and experimental investigation of forward spatter of blood from a gunshot. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	14
163	Detection of vapor released from sublimating materials encased in porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 118, 1357-1372	4.9	3
162	Wearable transparent thermal sensors and heaters based on metal-plated fibers and nanowires. <i>Nanoscale</i> , 2018 , 10, 19825-19834	7.7	28
161	Natural Biopolymer-Based Triboelectric Nanogenerators via Fast, Facile, Scalable Solution Blowing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37749-37759	9.5	27
160	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
159	Electrically-responsive deformation of polyelectrolyte complex (PEC) fibrous membrane. <i>Polymer</i> , 2018 , 158, 262-269	3.9	5
158	Evolution of toroidal free-rim perturbations on an expanding circular liquid sheet. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	3
157	Point-bonded polymer nonwovens and their rupture in stretching. <i>Polymer</i> , 2018 , 146, 209-221	3.9	12
156	Evidence of Faradaic Reactions in Electrostatic Atomizers. <i>Langmuir</i> , 2017 , 33, 1375-1384	4	9
155	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
154	Spongy Gels by a Top-Down Approach from Polymer Fibrous Sponges. <i>Angewandte Chemie</i> , 2017 , 129, 3333-3336	3.6	16
153	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
152	Adhesion of blended polymer films. <i>Polymer</i> , 2017 , 112, 92-101	3.9	5
151	Spongy Gels by a Top-Down Approach from Polymer Fibrous Sponges. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3285-3288	16.4	52
150	Facile processes for producing robust, transparent, conductive platinum nanofiber mats. <i>Nanoscale</i> , 2017 , 9, 6076-6084	7.7	13
149	High-speed video analysis of forward and backward spattered blood droplets. <i>Forensic Science International</i> , 2017 , 276, 134-141	2.6	23
148	Release of Self-Healing Agents in a Material: What Happens Next?. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17449-17455	9.5	20

147	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
146	Analytical and numerical assessments of local overpressure from hydrogen gas explosions in petrochemical plants. <i>Fire and Materials</i> , 2017 , 41, 587-597	1.8	5
145	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
144	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	12.3	79
143	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
142	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
141	Wetting and Coalescence of Drops of Self-Healing Agents on Electrospun Nanofiber Mats. <i>Langmuir</i> , 2017 , 33, 10663-10672	4	7
140	Self-Healing Nanotextured Vascular-like Materials: Mode I Crack Propagation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27223-27231	9.5	17
139	Thermally driven self-healing using copper nanofiber heater. <i>Applied Physics Letters</i> , 2017 , 111, 011902	3.4	8
138	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
137	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
136	Transparent Conducting Electrodes from Conducting Polymer Nanofibers and Their Application as Thin-Film Heaters. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700188	3.9	9
135	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
134	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
133	Wetting of inclined nano-textured surfaces by self-healing agents. <i>Applied Physics Letters</i> , 2017 , 111, 234101	3.4	4
132	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
131	Collision Phenomena in Liquids and Solids 2017 ,		76
130	Self-healing of nanofiber-based composites in the course of stretching. <i>Polymer</i> , 2016 , 103, 180-188	3.9	20

129	Numerical modeling and experimental study of solution-blown nonwovens formed on a rotating drum. <i>Polymer</i> , 2016 , 105, 255-263	3.9	12
128	Spreading of Carbopol gels. <i>Rheologica Acta</i> , 2016 , 55, 279-291	2.3	4
127	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
126	Efficient heat removal via thorny devil nanofiber, silver nanowire, and graphene nanotextured surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 101, 198-204	4.9	8
125	Electrohydrodynamic Conduction Pumping-Driven Liquid Film Flow Boiling on Bare and Nanofiber-Enhanced Surfaces. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	4
124	Long-Term Sustained Ciprofloxacin Release from PMMA and Hydrophilic Polymer Blended Nanofibers. <i>Molecular Pharmaceutics</i> , 2016 , 13, 295-305	5.6	56
123	Controlled Release of Ciprofloxacin from Core-Shell Nanofibers with Monolithic or Blended Core. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1393-404	5.6	69
122	Pool boiling of Novec 7300 and self-wetting 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
121	Solution-Blown Core-Shell Self-Healing Nano- and Microfibers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4955-62	9.5	75
120	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
119	Supersonically sprayed thermal barrier layers using clay micro-particles. <i>Applied Clay Science</i> , 2016 , 120, 142-146	5.2	10
118	Industrial-Scale Solution Blowing of Soy Protein Nanofibers. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 323-333	3.9	65
117	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
116	Prediction of blood back spatter from a gunshot in bloodstain pattern analysis. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	21
115	Self-Junctioned Copper Nanofiber Transparent Flexible Conducting Film via Electrospinning and Electroplating. <i>Advanced Materials</i> , 2016 , 28, 7149-54	24	120
114	Nano-textured copper oxide nanofibers for efficient air cooling. <i>Journal of Applied Physics</i> , 2016 , 119, 065306	2.5	15
113	Breakup process of cylindrical viscous liquid specimens after a strong explosion in the core. <i>Physics of Fluids</i> , 2016 , 28, 094105	4.4	3
112	Blood rheology in shear and uniaxial elongation. <i>Rheologica Acta</i> , 2016 , 55, 901-908	2.3	27

111	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
110	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
109	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
108	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
107	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
106	Ion-specific effects in foams. <i>Advances in Colloid and Interface Science</i> , 2015 , 225, 98-113	14.3	17
105	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
104	Nanotextured pillars of electrospayed bismuth vanadate for efficient photoelectrochemical water splitting. <i>Langmuir</i> , 2015 , 31, 3727-37	4	54
103	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
102	Self-Healing Reduced Graphene Oxide Films by Supersonic Kinetic Spraying. <i>Advanced Functional Materials</i> , 2014 , 24, 4986-4995	15.6	131
101	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
100	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
99	Supersonically blown ultrathin thorny devil nanofibers for efficient air cooling. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13657-66	9.5	20
98	Hybrid self-healing matrix using core-shell nanofibers and capsuleless microdroplets. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10461-8	9.5	76
97	Self-healing transparent core-shell nanofiber coatings for anti-corrosive protection. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7045	13	95
96	Fundamentals and Applications of Micro- and Nanofibers 2014 ,		128
95	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
94	Pool boiling on nano-textured surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 99-114.	4.9	69

93	Biopolymer-Based Nanofiber Mats and Their Mechanical Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15104-15113	3.9	38
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