Amy Q Shen

List of Publications by Year in Descending Order

165 papers	3,435 citations	31 h-index	49 g-index
193 ext. papers	4,196 ext. citations	5.5 avg, IF	6.03 L-index

#	Paper	IF	Citations
165	Detection and Characterization of Bacterial Biofilms and Biofilm-Based Sensors.. *ACS Sensors*, **2022**,	9.2	9
164	Population genetics in microchannels.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2120821119	11.5	1
163	Nanoplasmonic multiplex biosensing for COVID-19 vaccines.. *Biosensors and Bioelectronics*, **2022**, 208, 114193	11.8	2
162	Microrheological Approach for Probing the Entanglement Properties of Polyelectrolyte Solutions.. *ACS Macro Letters*, **2022**, 11, 84-90	6.6	1
161	Non-Newtonian flows and instabilities in 3D glass microfluidic devices **2022**, 2, 100023		
160	Evaporation driven smart patterning of microparticles on a rigid-soft composite substrate. *Journal of Colloid and Interface Science*, **2022**, 623, 927-937	9.3	2
159	Reduced and increased flow resistance in shear-dominated flows of Oldroyd-B fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2021**, 104698	2.7	0
158	High-throughput fabrication of high aspect ratio Ag/Al nanopillars for optical detection of biomarkers. *Journal of Materials Chemistry B*, **2021**, 9, 8851-8861	7.3	
157	Bifurcations in flows of complex fluids around microfluidic cylinders. *Lab on A Chip*, **2021**, 21, 4041-4059	7.2	0
156	A fast and efficient tool to study the rheology of dense suspensions. *Physics of Fluids*, **2021**, 33, 103314	4.4	1
155	Toward the Development of Rapid, Specific, and Sensitive Microfluidic Sensors: A Comprehensive Device Blueprint. *Jacs Au*, **2021**, 1, 1815-1833		2
154	Effects of Shearing and Extensional Flows on the Alignment of Colloidal Rods. *Macromolecules*, **2021**, 54, 4176-4185	5.5	8
153	Interfacial Tension Measurements in Microfluidic Quasi-Static Extensional Flows. *Micromachines*, **2021**, 12,	3.3	1
152	Rheological Scaling of Ionic Liquid-Based Polyelectrolytes in the Semidilute Unentangled Regime from Low to High Salt Concentrations. *Macromolecules*, **2021**, 54, 5648-5661	5.5	6
151	Torsional fracture of viscoelastic liquid bridges. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
150	Tristability in Viscoelastic Flow Past Side-by-Side Microcylinders. *Physical Review Letters*, **2021**, 126, 054501	7.4	11
149	Microtomographic particle image velocimetry measurements of viscoelastic instabilities in a three-dimensional microcontraction. *Journal of Fluid Mechanics*, **2021**, 923,	3.7	2

148	Stagnation points control chaotic fluctuations in viscoelastic porous media flow. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
147	Structure-property relationship of a soft colloidal glass in simple and mixed flows. *Journal of Colloid and Interface Science*, **2021**, 601, 454-466	9.3	3
146	Deterministic particle assembly on nanophotonic chips. *Journal of Colloid and Interface Science*, **2021**, 603, 259-269	9.3	
145	Periodic fluctuations of streamwise vortices in inertia-dominated intersecting flows. *Physics of Fluids*, **2021**, 33, 014106	4.4	5
144	Shear thickening behavior in dense repulsive and attractive suspensions of hard spheres. *Soft Matter*, **2021**, 17, 8047-8058	3.6	1
143	Rheology of the Electric Double Layer in Electrolyte Solutions. *Analytical Chemistry*, **2020**, 92, 8244-8253	7.8	6
142	Asymmetric flows of complex fluids past confined cylinders: A comprehensive numerical study with experimental validation. *Physics of Fluids*, **2020**, 32, 053103	4.4	24
141	Understanding of the role of dilution on evaporative deposition patterns of blood droplets over hydrophilic and hydrophobic substrates. *Journal of Colloid and Interface Science*, **2020**, 579, 541-550	9.3	12
140	Proof-of-concept modular fluid handling prototype integrated with microfluidic biochemical assay modules for point-of-care testing. *View*, **2020**, 1, e1	7.8	22
139	Asymmetric flow of polymer solutions around microfluidic cylinders: Interaction between shear-thinning and viscoelasticity. *Journal of Non-Newtonian Fluid Mechanics*, **2020**, 278, 104250	2.7	20
138	Intracellular Nanomaterial Delivery Spiral Hydroporation. *ACS Nano*, **2020**, 14, 3048-3058	16.7	22
137	Detecting Biofilm Development Stages on Gold and Titanium by Quartz Crystal Microbalance. *ACS Omega*, **2020**, 5, 2295-2302	3.9	10
136	Particle trapping in merging flow junctions by fluid-solute-colloid-boundary interactions. *Physical Review Fluids*, **2020**, 5,	2.8	6
135	Transition between solid and liquid state of yield-stress fluids under purely extensional deformations. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12611-12617	11.5	17
134	Purely Elastic Fluid-Structure Interactions in Microfluidics: Implications for Mucociliary Flows. *Small*, **2020**, 16, e1903872	11	18
133	Detection of antibodies against SARS-CoV-2 spike protein by gold nanospikes in an opto-microfluidic chip. *Biosensors and Bioelectronics*, **2020**, 169, 112578	11.8	118
132	Voltage-gated ion channels mediate the electrotaxis of glioblastoma cells in a hybrid PMMA/PDMS microdevice. *APL Bioengineering*, **2020**, 4, 036102	6.6	3
131	Metal-Enhanced Fluorescence Immunosensor Based on Plasmonic Arrays of Gold Nanoislands on an Etched Glass Substrate. *ACS Applied Nano Materials*, **2020**, 3, 10470-10478	5.6	15

130	Viscous flow through microfabricated axisymmetric contraction/expansion geometries. *Experiments in Fluids*, **2020**, 61, 1	2.5	8
129	Flow of wormlike micellar solutions around microfluidic cylinders with high aspect ratio and low blockage ratio. *Soft Matter*, **2019**, 15, 1927-1941	3.6	29
128	Microfluidic analog of an opposed-jets device. *Applied Physics Letters*, **2019**, 114, 223701	3.4	2
127	Heterogeneous flow inside threads of low viscosity fluids leads to anomalous long filament lifetimes. *Scientific Reports*, **2019**, 9, 7110	4.9	6
126	Usiigaci: Instance-aware cell tracking in stain-free phase contrast microscopy enabled by machine learning. *SoftwareX*, **2019**, 9, 230-237	2.7	47
125	Rheological Scaling of Ionic-Liquid-Based Polyelectrolytes in Ionic Liquid Solutions. *Macromolecules*, **2019**, 52, 2759-2771	5.5	12
124	Controlled symmetry breaking and vortex dynamics in intersecting flows. *Physics of Fluids*, **2019**, 31, 034104	4.4	10
123	Glioblastoma adhesion in a quick-fit hybrid microdevice. *Biomedical Microdevices*, **2019**, 21, 30	3.7	1
122	Secondary flows of viscoelastic fluids in serpentine microchannels. *Microfluidics and Nanofluidics*, **2019**, 23, 1	2.8	16
121	Real-time monitoring of DNA immobilization and detection of DNA polymerase activity by a microfluidic nanoplasmonic platform. *Biosensors and Bioelectronics*, **2019**, 142, 111528	11.8	37
120	Substrate stiffness affects particle distribution pattern in a drying suspension droplet. *Applied Physics Letters*, **2019**, 114, 253701	3.4	11
119	Detecting Gold Biomineralization by Biofilms on a Quartz Crystal Microbalance. *ACS Sensors*, **2019**, 4, 3023-3033	9.2	11
118	Optimized Immobilization of Biomolecules on Nonspherical Gold Nanostructures for Efficient Localized Surface Plasmon Resonance Biosensing. *Analytical Chemistry*, **2019**, 91, 15090-15098	7.8	11
117	Coupling of vortex breakdown and stability in a swirling flow. *Physical Review Fluids*, **2019**, 4,	2.8	9
116	Electrical Contact of Metals at the Nanoscale Overcomes the Oxidative Susceptibility of Silver-Based Nanobiosensors. *ACS Applied Nano Materials*, **2019**, 2, 2064-2075	5.6	8
115	Air Plasma-Enhanced Covalent Functionalization of Poly(methyl methacrylate): High-Throughput Protein Immobilization for Miniaturized Bioassays. *ACS Applied Materials & Interfaces*, **2019**, 11, 46350-46360	9.5	14
114	Dewetting Metal Nanofilms-Effect of Substrate on Refractive Index Sensitivity of Nanoplasmonic Gold. *Nanomaterials*, **2019**, 9,	5.4	14
113	3D-printed glass microfluidics for fluid dynamics and rheology. *Current Opinion in Colloid and Interface Science*, **2019**, 43, 1-14	7.6	27

112	Steady viscoelastic flow around high-aspect-ratio, low-blockage-ratio microfluidic cylinders. *Journal of Non-Newtonian Fluid Mechanics*, **2018**, 254, 23-35	2.7	29
111	Filling the gap between transient and steady shear rheology of aqueous graphene oxide dispersions. *Rheologica Acta*, **2018**, 57, 293-306	2.3	14
110	Total Capture, Convection-Limited Nanofluidic Immunoassays Exhibiting Nanoconfinement Effects. *Analytical Chemistry*, **2018**, 90, 3211-3219	7.8	3
109	Large-Scale Nanophotonic Structures for Long-Term Monitoring of Cell Proliferation. *Advanced Biology*, **2018**, 2, 1700258	3.5	9
108	Elastic modifications of an inertial instability in a 3D cross-slot. *Journal of Non-Newtonian Fluid Mechanics*, **2018**, 262, 12-24	2.7	10
107	Plasma-Assisted Large-Scale Nanoassembly of Metal-Insulator Bioplasmonic Mushrooms. *ACS Applied Materials & Interfaces*, **2018**, 10, 219-226	9.5	27
106	Microfluidic Assisted Nanoprecipitation of PLGA Nanoparticles for Curcumin Delivery to Leukemia Jurkat Cells. *Langmuir*, **2018**, 34, 3961-3970	4	41
105	Nanoplasmonics for Real-Time and Label-Free Monitoring of Microbial Biofilm Formation. *ACS Sensors*, **2018**, 3, 1499-1509	9.2	19
104	Microscopic investigation of vortex breakdown in a dividing T-junction flow. *Physical Review Fluids*, **2018**, 3,	2.8	16
103	Inertioelastic Poiseuille flow over a wavy surface. *Physical Review Fluids*, **2018**, 3,	2.8	7
102	Probing specific gravity in real-time with graphene oxide plasmonics. *Analytical Methods*, **2018**, 10, 290-297	3.1	6
101	Evaporation and morphological patterns of bi-dispersed colloidal droplets on hydrophilic and hydrophobic surfaces. *Soft Matter*, **2018**, 14, 9901-9909	3.6	12
100	Cell biology at the interface of nanobiosensors and microfluidics. *Methods in Cell Biology*, **2018**, 148, 203-227	1.8	4
99	Phase diagram for viscoelastic Poiseuille flow over a wavy surface. *Physics of Fluids*, **2018**, 30, 113101	4.4	9
98	Fluid Viscoelasticity Drives Self-Assembly of Particle Trains in a Straight Microfluidic Channel. *Physical Review Applied*, **2018**, 10,	4.3	26
97	Temperature controlled tensiometry using droplet microfluidics. *Lab on A Chip*, **2017**, 17, 717-726	7.2	23
96	Relaxation time of dilute polymer solutions: A microfluidic approach. *Journal of Rheology*, **2017**, 61, 327-337	4.1	46
95	Dynamics of a Water Droplet over a Sessile Oil Droplet: Compound Droplets Satisfying a Neumann Condition. *Langmuir*, **2017**, 33, 5713-5723	4	13

94	Shear rheology of graphene oxide dispersions. *Current Opinion in Chemical Engineering*, **2017**, 16, 23-30	5.4	27
93	In-situ shear-banding quantification of surfactant solutions in straight microfluidic channels. *Journal of Rheology*, **2017**, 61, 769-783	4.1	5
92	Microcontact printing with aminosilanes: creating biomolecule micro- and nanoarrays for multiplexed microfluidic bioassays. *Analyst, The*, **2017**, 142, 1772-1781	5	25
91	When Microrheology, Bulk Rheology, and Microfluidics Meet: Broadband Rheology of Hydroxyethyl Cellulose Water Solutions. *Macromolecules*, **2017**, 50, 2951-2963	5.5	37
90	"From the Edge to the Center": Viscoelastic Migration of Particles and Cells in a Strongly Shear-Thinning Liquid Flowing in a Microchannel. *Analytical Chemistry*, **2017**, 89, 13146-13159	7.8	42
89	Inertioelastic Flow Instability at a Stagnation Point. *Physical Review X*, **2017**, 7,	9.1	19
88	Tumour-on-a-chip: microfluidic models of tumour morphology, growth and microenvironment. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	115
87	Microfluidic device flow field characterization around tumor spheroids with tunable necrosis produced in an optimized off-chip process. *Biomedical Microdevices*, **2017**, 19, 59	3.7	5
86	Dual-mode refractive index and charge sensing to investigate complex surface chemistry on nanostructures. *Nanoscale*, **2017**, 9, 547-554	7.7	15
85	Poiseuille flow over a wavy surface. *Physical Review Fluids*, **2017**, 2,	2.8	4
84	Flow of wormlike micellar solutions around confined microfluidic cylinders. *Soft Matter*, **2016**, 12, 8666-8681	3.8	38
83	Tricritical spiral vortex instability in cross-slot flow. *Physical Review E*, **2016**, 93, 031101	2.4	35
82	Elastic instabilities in planar elongational flow of monodisperse polymer solutions. *Scientific Reports*, **2016**, 6, 33029	4.9	55
81	Sensing and Sensibility: Single-Islet-based Quality Control Assay of Cryopreserved Pancreatic Islets with Functionalized Hydrogel Microcapsules. *Advanced Healthcare Materials*, **2016**, 5, 223-31	10.1	18
80	A low cost, disposable cable-shaped Al–air battery for portable biosensors. *Journal of Micromechanics and Microengineering*, **2016**, 26, 055011	2	16
79	Droplet synthesis of silver nanoparticles by a microfluidic device. *Chemical Engineering and Processing: Process Intensification*, **2016**, 102, 186-193	3.7	48
78	Spreading of miscible liquids. *Physical Review Fluids*, **2016**, 1,	2.8	5
77	Novel refractive index biosensing of microcontact printed molecules on lithium niobate. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 2095-2098	0.9	

76	Uniform electric field generation in circular multi-well culture plates using polymeric inserts. *Scientific Reports*, **2016**, 6, 26222	4.9	10
75	Formation and flow behavior of micellar membranes in a T-shaped microchannel. *Soft Matter*, **2016**, 12, 8226-8234	3.6	6
74	Getting in shape: molten wax drop deformation and solidification at an immiscible liquid interface. *Journal of Colloid and Interface Science*, **2015**, 445, 231-242	9.3	12
73	Synthesis of copper nanocolloids using a continuous flow based microreactor. *Applied Surface Science*, **2015**, 355, 1-6	6.7	13
72	X-ray visible and uniform alginate microspheres loaded with in situ synthesized BaSO4 nanoparticles for in vivo transcatheter arterial embolization. *Biomacromolecules*, **2015**, 16, 1240-6	6.9	35
71	Integrated microfluidic platform for instantaneous flow and localized temperature control. *RSC Advances*, **2015**, 5, 85620-85629	3.7	12
70	Rheological characterizations of wormlike micellar solutions containing cationic surfactant and anionic hydrotropic salt. *Journal of Rheology*, **2015**, 59, 1229-1259	4.1	21
69	Thermoresponsive self-assembled NiPAm-zwitterion copolymers. *Polymer Chemistry*, **2015**, 6, 1066-1077	4.9	38
68	Shape-tunable wax microparticle synthesis via microfluidics and droplet impact. *Biomicrofluidics*, **2015**, 9, 064114	3.2	7
67	Formation of crystal-like structures and branched networks from nonionic spherical micelles. *Scientific Reports*, **2015**, 5, 17941	4.9	4
66	Synthesis of copper nanoparticles by a T-shaped microfluidic device. *RSC Advances*, **2014**, 4, 25155-25159	3.7	20
65	Contact angle changes induced by immunocomplex formation. *Analyst, The*, **2014**, 139, 1340-4	5	3
64	Flow-induced immobilization of glucose oxidase in nonionic micellar nanogels for glucose sensing. *Lab on A Chip*, **2014**, 14, 3912-6	7.2	10
63	Electro-conductive porous scaffold with single-walled carbon nanotubes in wormlike micellar networks. *Carbon*, **2014**, 80, 203-212	10.4	9
62	Microfluidic flows of wormlike micellar solutions. *Advances in Colloid and Interface Science*, **2014**, 211, 34-46	14.3	37
61	Turning up the heat on wormlike micelles with a hydrotopic salt in microfluidics. *Soft Matter*, **2014**, 10, 9300-12	3.6	10
60	Atom-economical in situ synthesis of BaSO4 as imaging contrast agents within poly(N-isopropylacrylamide) microgels using one-step droplet microfluidics. *Green Chemistry*, **2013**, 15, 2222	10	17
59	Flow-induced structured phase in nonionic micellar solutions. *Langmuir*, **2013**, 29, 15485-95	4	7

58	Fabrication of conducting polyaniline microspheres using droplet microfluidics. *RSC Advances*, **2013**, 3, 24423	3.7	13
57	Lipid tubule growth by osmotic pressure. *Journal of the Royal Society Interface*, **2013**, 10, 20130637	4.1	6
56	Microfluidic one-step synthesis of alginate microspheres immobilized with antibodies. *Journal of the Royal Society Interface*, **2013**, 10, 20130566	4.1	27
55	Worming their way into shape: toroidal formations in micellar solutions. *ACS Nano*, **2013**, 7, 9704-13	16.7	3
54	Microstructure and rheology of a flow-induced structured phase in wormlike micellar solutions. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E1653-60	11.5	57
53	Elastic instabilities in a microfluidic cross-slot flow of wormlike micellar solutions. *Soft Matter*, **2012**, 8, 5847	3.6	41
52	Microfluidic one-step fabrication of radiopaque alginate microgels with in situ synthesized barium sulfate nanoparticles. *Lab on A Chip*, **2012**, 12, 4781-6	7.2	28
51	Local micelle concentration fluctuations in microfluidic flows and its relation to a flow-induced structured phase (FISP). *Soft Matter*, **2012**, 8, 2304	3.6	16
50	Microencapsulated 3-dimensional sensor for the measurement of oxygen in single isolated pancreatic islets. *PLoS ONE*, **2012**, 7, e33070	3.7	18
49	In situ pressure measurement within deformable rectangular polydimethylsiloxane microfluidic devices. *Biomicrofluidics*, **2012**, 6, 26501-2650112	3.2	41
48	A stable flow-induced structured phase in wormlike micellar solutions. *Soft Matter*, **2011**, 7, 876-879	3.6	20
47	Irreversible nanogel formation in surfactant solutions by microporous flow. *Nature Materials*, **2010**, 9, 436-41	27	80
46	Size-selective immunofluorescence of Mycobacterium tuberculosis cells by capillary- and viscous forces. *Lab on A Chip*, **2010**, 10, 3178-81	7.2	12
45	The freedom of confinement in complex fluid. *Physics Today*, **2010**, 63, 30-35	0.9	8
44	Nanoporous scaffold with immobilized enzymes during flow-induced gelation for sensitive H(2)O(2) biosensing. *Advanced Materials*, **2010**, 22, 2809-13	24	20
43	Task specific ionic liquid for direct electrochemistry of metal oxides. *Electrochemistry Communications*, **2010**, 12, 1214-1217	5.1	33
42	Crossover transition in flowing granular chains. *Physical Review E*, **2009**, 80, 030301	2.4	4
41	Can large-scale advanced-adiabatic compressed air energy storage be justified economically in an age of sustainable energy?. *Journal of Renewable and Sustainable Energy*, **2009**, 1, 033102	2.5	47

40	Microfluidics enhanced control of the microstructure and flow of complex fluids. *Mechanics Research Communications*, **2009**, 36, 121-124	2.2	4
39	Evolution equation for a disclination line located between the uniaxial and isotropic phases of a nematic liquid crystal. *Journal of Colloid and Interface Science*, **2009**, 329, 140-52	9.3	2
38	Stability of a sharp uniaxial-isotropic phase interface. *Journal of Colloid and Interface Science*, **2009**, 339, 502-10	9.3	
37	Parking the power: Strategies and physical limitations for bulk energy storage in supply□demand matching on a grid whose input power is provided by intermittent sources. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 1934-1945	16.2	144
36	Formation of supramolecular hydrogel microspheres via microfluidics. *Lab on A Chip*, **2009**, 9, 2947-51	7.2	29
35	Engineering lipid tubules using nano-sized building blocks: the combinatorial self-assembly of vesicles. *Lab on A Chip*, **2008**, 8, 339-45	7.2	18
34	Self-similar shear thickening behavior in CTAB/NaSal surfactant solutions. *Journal of Rheology*, **2008**, 52, 527-550	4.1	44
33	Isotropic-to-nematic phase transition in a liquid-crystal droplet. *Langmuir*, **2008**, 24, 541-6	4	16
32	Material characterization of porcine lenticular soluble proteins. *Biomacromolecules*, **2008**, 9, 1519-26	6.9	12
31	Confinement effects on the self-assembly of 1,3:2,4-Di-p-methylbenzylidene sorbitol based organogel. *Langmuir*, **2008**, 24, 10432-6	4	43
30	Inelastic behavior in repeated shearing of bovine white matter. *Journal of Biomechanical Engineering*, **2008**, 130, 044504	2.1	6
29	Reversible and Irreversible Flow-Induced Phase Transitions in Micellar Solutions. *AIP Conference Proceedings*, **2008**,	0	2
28	Coating flows of non-Newtonian fluids: weakly and strongly elastic limits. *Journal of Engineering Mathematics*, **2008**, 60, 17-41	1.2	28
27	Anisotropic contraction in forisomes: simple models won't fit. *Cytoskeleton*, **2008**, 65, 368-78		18
26	Kinetics of colloidal templating using emulsion drop consolidation. *Langmuir*, **2007**, 23, 12821-6	4	16
25	Elastic properties of the forisome. *Functional Plant Biology*, **2007**, 34, 935-945	2.7	4
24	Liquid crystal droplet production in a microfluidic device. *Liquid Crystals*, **2007**, 34, 861-870	2.3	45
23	Dynamics of viscoelastic fluid filaments in microfluidic devices. *Physics of Fluids*, **2007**, 19, 073103	4.4	75

22	A portable anaerobic microbioreactor reveals optimum growth conditions for the methanogen Methanosaeta concilii. *Applied and Environmental Microbiology*, **2007**, 73, 1653-8	4.8	72
21	Tailed forisomes of Canavalia gladiata: a new model to study Ca2+-driven protein contractility. *Annals of Botany*, **2007**, 100, 101-9	4.1	29
20	Design of a biomimetic-based monitoring and diagnostic system for civil structures. *International Journal of Nanotechnology*, **2007**, 4, 309	1.5	8
19	Corrigendum to: Elastic properties of the forisome. *Functional Plant Biology*, **2007**, 34, 1053	2.7	
18	Evaporation induced self assembly and rheology change during sol-gel coating. *Physics of Fluids*, **2006**, 18, 052105	4.4	25
17	Theory for solvent, momentum, and energy transfer between a surfactant solution and a vapor atmosphere. *Physical Review E*, **2006**, 73, 061601	2.4	8
16	Droplet size effects on film drainage between droplet and substrate. *Langmuir*, **2006**, 22, 5308-13	4	21
15	Prospective energy densities in the forisome, a new smart material. *Materials Science and Engineering C*, **2006**, 26, 104-112	8.3	21
14	Forisome based biomimetic smart materials. *Smart Structures and Systems*, **2006**, 2, 225-235		15
13	Forisome as biomimetic smart materials **2005**, 5765, 97		2
12	Point Defects in Nematic Gels: The Case for Hedgehogs. *Archive for Rational Mechanics and Analysis*, **2005**, 177, 21-51	2.3	1
11	Granular finger formation in a rotating cylinder. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2003**, 459, 891-909	2.4	1
10	Fiber coating with surfactant solutions. *Physics of Fluids*, **2002**, 14, 4055-4068	4.4	102
9	Surface Morphology of Drying Latex Films: Multiple Ring Formation. *Langmuir*, **2002**, 18, 3441-3445	4	196
8	Granular fingering patterns in horizontal rotating cylinders. *Physics of Fluids*, **2002**, 14, 462-470	4.4	15
7	Granular jets. *Physics of Fluids*, **2001**, 13, 4-6	4.4	102
6	Visco-plastic models of isothermal lava domes. *Journal of Fluid Mechanics*, **2000**, 403, 37-65	3.7	78
5	Generalization of the Stefan model to allow for both velocity and temperature jumps. *Continuum Mechanics and Thermodynamics*, **1999**, 11, 277-296	3.5	7

List of Publications

4	IS SEGREGATION-BY-PARTICLE-TYPE A GENERIC MECHANISM UNDERLYING FINGER FORMATION AT FRONTS OF FLOWING GRANULAR MEDIA?. *Particulate Science and Technology*, **1999**, 17, 141-147	2	2
3	Wave patterns in a thin layer of sand within a rotating horizontal cylinder. *Physics of Fluids*, **1998**, 10, 10-12	4.4	15
2	Jestimation for shallow notch SE(B) specimens: 3 and 4 point bending vs. pure bending. *International Journal of Fracture*, **1996**, 77, R11-R17	2.3	
1	Usiigaci: Instance-aware cell tracking in stain-free phase contrast microscopy enabled by machine learning		2