

# Chwee Teck Lim

## 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.

502  
papers

34,866  
citations

92  
h-index

172  
g-index

535  
ext. papers

39,700  
ext. citations

7.3  
avg, IF

7.58  
L-index

#	Paper	IF	Citations
502	The Role of the Extracellular Matrix and Tumor-Infiltrating Immune Cells in the Prognostication of High-Grade Serous Ovarian Cancer.. <i>Cancers</i> , <b>2022</b> , 14,	6.6	2
501	Matrisomal genes in squamous cell carcinoma of head and neck influence tumor cell motility and response to cetuximab treatment.. <i>Cancer Communications</i> , <b>2022</b> ,	9.4	
500	Electronic textiles for energy, sensing, and communication.. <i>IScience</i> , <b>2022</b> , 25, 104174	6.1	2
499	Point-of-care diagnostic tests for tuberculosis disease.. <i>Science Translational Medicine</i> , <b>2022</b> , 14, eabj4124	17.5	2
498	Prognostic Neurotransmitter Receptors Genes Are Associated with Immune Response, Inflammation and Cancer Hallmarks in Brain Tumors. <i>Cancers</i> , <b>2022</b> , 14, 2544	6.6	1
497	Agrin-Matrix Metalloproteinase-12 axis confers a mechanically competent microenvironment in skin wound healing. <i>Nature Communications</i> , <b>2021</b> , 12, 6349	17.4	5
496	A wireless and battery-free wound infection sensor based on DNA hydrogel. <i>Science Advances</i> , <b>2021</b> , 7, eabj1617	14.3	14
495	Prognostic Matrisomal Gene Panel and Its Association with Immune Cell Infiltration in Head and Neck Carcinomas. <i>Cancers</i> , <b>2021</b> , 13,	6.6	2
494	Skin models for cutaneous melioidosis reveal infection dynamics at wound's edge with inflammasome activation, keratinocyte extrusion and epidermal detachment. <i>Emerging Microbes and Infections</i> , <b>2021</b> , 10, 2326-2339	18.9	
493	Microfluidic detection of human diseases: From liquid biopsy to COVID-19 diagnosis. <i>Journal of Biomechanics</i> , <b>2021</b> , 117, 110235	2.9	10
492	Microfluidics for Liquid Biopsies: Recent Advances, Current Challenges, and Future Directions. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4727-4738	7.8	12
491	EpCAM promotes endosomal modulation of the cortical RhoA zone for epithelial organization. <i>Nature Communications</i> , <b>2021</b> , 12, 2226	17.4	3
490	Distinct mRNAs in Cancer Extracellular Vesicles Activate Angiogenesis and Alter Transcriptome of Vascular Endothelial Cells. <i>Cancers</i> , <b>2021</b> , 13,	6.6	2
489	Presence of tumor cells in intra-operative blood salvage autotransfusion samples from hepatocellular carcinoma liver transplantation: analysis using highly sensitive microfluidics technology. <i>Hpb</i> , <b>2021</b> , 23, 1700-1707	3.8	0
488	Flexible Wearable Sensors for Cardiovascular Health Monitoring. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100116	10.1	24
487	A flexible multiplexed immunosensor for point-of-care in situ wound monitoring. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	28
486	An integrated platform to facilitate the calculation, validation and visualization of optical flow velocities in biological images. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20210248	4.1	0

485	Surface Plasmon Resonance Assay for Identification of Small Molecules Capable of Inhibiting A $\beta$ Aggregation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 27845-27855	9.5	1
484	Adhesion-mediated heterogeneous actin organization governs apoptotic cell extrusion. <i>Nature Communications</i> , <b>2021</b> , 12, 397	17.4	17
483	Investigating the influence of physiologically relevant hydrostatic pressure on CHO cell batch culture. <i>Scientific Reports</i> , <b>2021</b> , 11, 162	4.9	3
482	Microfluidic studies of hydrostatic pressure-enhanced doxorubicin resistance in human breast cancer cells. <i>Lab on A Chip</i> , <b>2021</b> , 21, 746-754	7.2	3
481	High-throughput functional profiling of single adherent cells hydrogel drop-screen. <i>Lab on A Chip</i> , <b>2021</b> , 21, 764-774	7.2	3
480	Engineering confining microenvironment for studying cancer metastasis. <i>iScience</i> , <b>2021</b> , 24, 102098	6.1	3
479	Machine learning based approach to pH imaging and classification of single cancer cells. <i>APL Bioengineering</i> , <b>2021</b> , 5, 016105	6.6	3
478	Complementary Sequential Circulating Tumor Cell (CTC) and Cell-Free Tumor DNA (ctDNA) Profiling Reveals Metastatic Heterogeneity and Genomic Changes in Lung Cancer and Breast Cancer. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 698551	5.3	3
477	Selective killing of transformed cells by mechanical stretch. <i>Biomaterials</i> , <b>2021</b> , 275, 120866	15.6	8
476	Highly-customizable 3D-printed peristaltic pump kit. <i>HardwareX</i> , <b>2021</b> , 10, e00202	2.7	6
475	The role of single cell mechanical behavior and polarity in driving collective cell migration. <i>Nature Physics</i> , <b>2020</b> , 16, 802-809	16.2	39
474	A Soft Sensorized Microfluidic Tubular Actuating Gripper. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000150	6.5	4
473	Mechanistic Understanding of the Biological Responses to Polymeric Nanoparticles. <i>ACS Nano</i> , <b>2020</b> , 14, 4509-4522	16.7	23
472	Thermal-Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907030	24	37
471	Label-free separation of mesenchymal stem cell subpopulations with distinct differentiation potencies and paracrine effects. <i>Biomaterials</i> , <b>2020</b> , 240, 119881	15.6	9
470	Sensorized fabric glove as game controller for rehabilitation <b>2020</b> ,		1
469	High-throughput and label-free isolation of senescent murine mesenchymal stem cells. <i>Biomicrofluidics</i> , <b>2020</b> , 14, 034106	3.2	4
468	Microfluidic tools for probing micro-culprits: Opportunities and challenges in microfluidic diagnostics. <i>EMBO Reports</i> , <b>2020</b> , 21, e49749	6.5	3

467	Cell response to substrate rigidity is regulated by active and passive cytoskeletal stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 12817-12825	11.5	48
466	Prospective Molecular Profiling of Circulating Tumor Cells from Patients with Melanoma Receiving Combinatorial Immunotherapy. <i>Clinical Chemistry</i> , <b>2020</b> , 66, 169-177	5.5	17
465	Temperature-Induced Catch-Slip to Slip Bond Transit in Plasmodium falciparum-Infected Erythrocytes. <i>Biophysical Journal</i> , <b>2020</b> , 118, 105-116	2.9	3
464	The key events of thrombus formation: platelet adhesion and aggregation. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2020</b> , 19, 943-955	3.8	8
463	Hydrostatic pressure promotes endothelial tube formation through aquaporin 1 and Ras-ERK signaling. <i>Communications Biology</i> , <b>2020</b> , 3, 152	6.7	7
462	Biomimicking Fiber Platform with Tunable Stiffness to Study Mechanotransduction Reveals Stiffness Enhances Oligodendrocyte Differentiation but Impedes Myelination through YAP-Dependent Regulation. <i>Small</i> , <b>2020</b> , 16, e2003656	11	11
461	Microfluidic label-free bioprocessing of human reticulocytes from erythroid culture. <i>Lab on A Chip</i> , <b>2020</b> , 20, 3445-3460	7.2	5
460	A Biologist's Guide to Traction Force Microscopy Using Polydimethylsiloxane Substrate for Two-Dimensional Cell Cultures. <i>STAR Protocols</i> , <b>2020</b> , 1, 100098	1.4	5
459	Cell Migration and Breast Cancer Metastasis in Biomimetic Extracellular Matrices with Independently Tunable Stiffness. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005383	15.6	12
458	Flexible Hybrid Sensors for Health Monitoring: Materials and Mechanisms to Render Wearability. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902133	24	114
457	Wearable Sensors: Flexible Hybrid Sensors for Health Monitoring: Materials and Mechanisms to Render Wearability (Adv. Mater. 15/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070117	24	6
456	Future of health diagnostics. <i>View</i> , <b>2020</b> , 1, e3	7.8	5
455	Detection of Clinical Mesenchymal Cancer Cells from Bladder Wash Urine for Real-Time Detection and Prognosis. <i>Cancers</i> , <b>2019</b> , 11,	6.6	10
454	Liquid biopsy: one cell at a time. <i>Npj Precision Oncology</i> , <b>2019</b> , 3, 23	9.8	38
453	Microfluidic modelling of the tumor microenvironment for anti-cancer drug development. <i>Lab on A Chip</i> , <b>2019</b> , 19, 369-386	7.2	112
452	Electrochemically Induced Amorphization and Unique Lithium and Sodium Storage Pathways in FeSbO Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20082-20090	9.5	11
451	Microstructurally engineered nanocrystalline Fe <sub>3</sub> N <sub>2</sub> anodes: towards stable high energy density sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14145-14152	13	14
450	Pan-cancer analysis connects tumor matrisome to immune response. <i>Npj Precision Oncology</i> , <b>2019</b> , 3, 15	9.8	36

449	A coarse-grained red blood cell membrane model to study stomatocyte-discocyte-echinocyte morphologies. <i>PLoS ONE</i> , <b>2019</b> , 14, e0215447	3.7	25
448	Advances in Technologies for Purification and Enrichment of Extracellular Vesicles. <i>SLAS Technology</i> , <b>2019</b> , 24, 477-488	3	15
447	Differential Homeostasis of Sessile and Pendant Epithelium Reconstituted in a 3D-Printed "GeminiChip". <i>Advanced Materials</i> , <b>2019</b> , 31, e1900514	24	11
446	Stimuli-responsive injectable cellulose thixogel for cell encapsulation. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 130, 1009-1017	7.9	19
445	Phase-Change-Material-Based Low-Loss Visible-Frequency Hyperbolic Metamaterials for Ultrasensitive Label-Free Biosensing. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900081	8.1	43
444	Low-dose anti-inflammatory combinatorial therapy reduced cancer stem cell formation in patient-derived preclinical models for tumour relapse prevention. <i>British Journal of Cancer</i> , <b>2019</b> , 120, 407-423	8.7	21
443	Toxicity of Two-Dimensional Layered Materials and Their Heterostructures. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 2287-2299	6.3	32
442	Dual-Core Capacitive Microfiber Sensor for Smart Textile Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 33347-33355	9.5	18
441	Monitoring of cancer patients via next-generation sequencing of patient-derived circulating tumor cells and tumor DNA. <i>Cancer Science</i> , <b>2019</b> , 110, 2590-2599	6.9	41
440	Nanoscale Architecture of the Cortical Actin Cytoskeleton in Embryonic Stem Cells. <i>Cell Reports</i> , <b>2019</b> , 28, 1251-1267.e7	10.6	28
439	Young's Modulus Determination of Normal and Glaucomatous Human Iris <b>2019</b> , 60, 2690-2695		15
438	Compendiums of cancer transcriptomes for machine learning applications. <i>Scientific Data</i> , <b>2019</b> , 6, 194	8.2	8
437	Microfluidics for personalized drug screening of cancer. <i>Current Opinion in Pharmacology</i> , <b>2019</b> , 48, 155-161	16.1	9
436	Single-Cell Analysis of Circulating Tumor Cells: Why Heterogeneity Matters. <i>Cancers</i> , <b>2019</b> , 11,	6.6	34
435	Addressing cellular heterogeneity in tumor and circulation for refined prognostication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 17957-17962	11.5	29
434	Potassium channel dysfunction in human neuronal models of Angelman syndrome. <i>Science</i> , <b>2019</b> , 366, 1486-1492	33.3	58
433	Liquid biopsy for minimal residual disease detection in leukemia using a portable blast cell biochip. <i>Npj Precision Oncology</i> , <b>2019</b> , 3, 30	9.8	12
432	Numerical design of a microfluidic chip for probing mechanical properties of cells. <i>Journal of Biomechanics</i> , <b>2019</b> , 84, 103-112	2.9	10

431	Defect engineered bioactive transition metals dichalcogenides quantum dots. <i>Nature Communications</i> , <b>2019</b> , 10, 41	17.4	107
430	Live single cell mass spectrometry reveals cancer-specific metabolic profiles of circulating tumor cells. <i>Cancer Science</i> , <b>2019</b> , 110, 697-706	6.9	51
429	Nanomechanical Microfluidic Mixing and Rapid Labeling of Silica Nanoparticles using Allenamide-Thiol Covalent Linkage for Bioimaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4867-4875	9.5	3
428	Microfluidics Integrated Lithography-Free Nanophotonic Biosensor for the Detection of Small Molecules. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801313	8.1	13
427	Streaming Current Based Microtubular Enzymatic Sensor for Self-Powered Detection of Urea. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800430	6.8	10
426	Material approaches to active tissue mechanics. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 23-44	73.3	66
425	Label-free extraction of extracellular vesicles using centrifugal microfluidics. <i>Biomicrofluidics</i> , <b>2018</b> , 12, 024103	3.2	27
424	Characterization and application of size-sorted zonal chondrocytes for articular cartilage regeneration. <i>Biomaterials</i> , <b>2018</b> , 165, 66-78	15.6	22
423	Microfluidic label-free selection of mesenchymal stem cell subpopulation during culture expansion extends the chondrogenic potential in vitro. <i>Lab on A Chip</i> , <b>2018</b> , 18, 878-889	7.2	26
422	Biosensing with the singular phase of an ultrathin metal-dielectric nanophotonic cavity. <i>Nature Communications</i> , <b>2018</b> , 9, 369	17.4	65
421	Relationship between transit time and mechanical properties of a cell through a stenosed microchannel. <i>Soft Matter</i> , <b>2018</b> , 14, 533-545	3.6	17
420	Force-dependent binding of vinculin to E-catenin regulates cell-cell contact stability and collective cell behavior. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 380-388	3.5	52
419	Design of a Reconfigurable Patch Antenna Using the Movement of Liquid Metal. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2018</b> , 17, 974-977	3.8	34
418	Highly Stretchable, Weavable, and Washable Piezoresistive Microfiber Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12773-12780	9.5	57
417	When stem cells meet graphene: Opportunities and challenges in regenerative medicine. <i>Biomaterials</i> , <b>2018</b> , 155, 236-250	15.6	181
416	Microfluidics for cell sorting and single cell analysis from whole blood. <i>Methods in Cell Biology</i> , <b>2018</b> , 147, 151-173	1.8	7
415	Wearable Sensors for Upper Limb Monitoring <b>2018</b> , 113-134		1
414	A topologically substituted boron nitride hybrid aerogel for highly selective CO <sub>2</sub> uptake. <i>Nano Research</i> , <b>2018</b> , 11, 6325-6335	10	12

413	Mechanobiology of Tumor Growth. <i>Chemical Reviews</i> , <b>2018</b> , 118, 6499-6515	68.1	74
412	Flagellum couples cell shape to motility in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E5916-E5925	11.5	17
411	Expansion of patient-derived circulating tumor cells from liquid biopsies using a CTC microfluidic culture device. <i>Nature Protocols</i> , <b>2018</b> , 13, 34-58	18.8	79
410	Cancer diagnosis: from tumor to liquid biopsy and beyond. <i>Lab on A Chip</i> , <b>2018</b> , 19, 11-34	7.2	74
409	Beyond intercalation based sodium-ion batteries: the role of alloying anodes, efficient sodiation mechanisms and recent progress. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2567-2582	5.8	22
408	A merged lung cancer transcriptome dataset for clinical predictive modeling. <i>Scientific Data</i> , <b>2018</b> , 5, 180136	8.2	22
407	A 3D microvascular network model to study the impact of hypoxia on the extravasation potential of breast cell lines. <i>Scientific Reports</i> , <b>2018</b> , 8, 17949	4.9	29
406	Route of Irreversible Transformation in Layered Tin Thiophosphite and Enhanced Lithium Storage Performance. <i>ACS Applied Energy Materials</i> , <b>2018</b> ,	6.1	4
405	Large-Area Silver-Stibnite Nanoporous Plasmonic Films for Label-Free Biosensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34991-34999	9.5	17
404	Potential of circulating biomarkers in liquid biopsy diagnostics. <i>BioTechniques</i> , <b>2018</b> , 65, 187-189	2.5	3
403	A reference document on Permissible Limits for solvents and buffers during in vitro antimalarial screening. <i>Scientific Reports</i> , <b>2018</b> , 8, 14974	4.9	3
402	Probing the Physical Origin of Anisotropic Thermal Transport in Black Phosphorus Nanoribbons. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804928	24	31
401	Febrile Temperature Elevates the Expression of Phosphatidylserine on Plasmodium falciparum (FCR3CSA) Infected Red Blood Cell Surface Leading to Increased Cytoadhesion. <i>Scientific Reports</i> , <b>2018</b> , 8, 15022	4.9	9
400	Biological Tissues as Active Nematic Liquid Crystals. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802579	24	37
399	Detection of Lung Cancer: Concomitant Volatile Organic Compounds and Metabolomic Profiling of Six Cancer Cell Lines of Different Histological Origins. <i>ACS Omega</i> , <b>2018</b> , 3, 5131-5140	3.9	40
398	Tubular microcaffolds for studying collective cell migration. <i>Methods in Cell Biology</i> , <b>2018</b> , 146, 3-21	1.8	3
397	Agrin as a Mechanotransduction Signal Regulating YAP through the Hippo Pathway. <i>Cell Reports</i> , <b>2017</b> , 18, 2464-2479	10.6	123
396	Ultrathin and Wearable Microtubular Epidermal Sensor for Real-Time Physiological Pulse Monitoring. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700016	6.8	55

395	Topological defects in epithelia govern cell death and extrusion. <i>Nature</i> , <b>2017</b> , 544, 212-216	50.4	316
394	Wearable Mechanotransduced Tactile Sensor for Haptic Perception. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700006	6.8	30
393	Reconfigurable optical manipulation by phase change material waveguides. <i>Nanoscale</i> , <b>2017</b> , 9, 6895-6900	9.7	8
392	Modeling collective cell migration in geometric confinement. <i>Physical Biology</i> , <b>2017</b> , 14, 035001	3	16
391	Directing Assembly and Disassembly of 2D MoS Nanosheets with DNA for Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15286-15296	9.5	199
390	Nanomechanically Visualizing Drug-Cell Interaction at the Early Stage of Chemotherapy. <i>ACS Nano</i> , <b>2017</b> , 11, 6996-7005	16.7	35
389	Enhancing the sensing specificity of a MoS nanosheet-based FRET aptasensor using a surface blocking strategy. <i>Analyst, The</i> , <b>2017</b> , 142, 2570-2577	5	22
388	YAP Regulates Actin Dynamics through ARHGAP29 and Promotes Metastasis. <i>Cell Reports</i> , <b>2017</b> , 19, 1495-1502	10.6	125
387	Personalized Treatment Through Detection and Monitoring of Genetic Aberrations in Single Circulating Tumor Cells. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 994, 255-273	3.6	10
386	All-Optical Chirality-Sensitive Sorting via Reversible Lateral Forces in Interference Fields. <i>ACS Nano</i> , <b>2017</b> , 11, 4292-4300	16.7	69
385	Nanofiber technology: current status and emerging developments. <i>Progress in Polymer Science</i> , <b>2017</b> , 70, 1-17	29.6	398
384	Exosomes in Cancer Nanomedicine and Immunotherapy: Prospects and Challenges. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 665-676	15.1	224
383	Expression dynamics and physiologically relevant functional study of STEVOR in asexual stages of Plasmodium falciparum infection. <i>Cellular Microbiology</i> , <b>2017</b> , 19, e12715	3.9	9
382	Quantifying Tensile Force and ERK Phosphorylation on Actin Stress Fibers. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1487, 223-234	1.4	6
381	Advancing Techniques and Insights in Circulating Tumor Cell (CTC) Research. <i>Cancer Drug Discovery and Development</i> , <b>2017</b> , 71-94	0.3	1
380	Probing eukaryotic cell mechanics via mesoscopic simulations. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005726	5	20
379	Ultralow Thermal Conductivity of Single-Crystalline Porous Silicon Nanowires. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702824	15.6	35
378	Graphene oxide inhibits malaria parasite invasion and delays parasitic growth in vitro. <i>Nanoscale</i> , <b>2017</b> , 9, 14065-14073	7.7	11



377	Metastatic efficiency of tumour cells can be impaired by intraoperative cell salvage process: truth or conjecture?. <i>Transfusion Medicine</i> , <b>2017</b> , 27 Suppl 5, 327-334	1.3	13
376	Soft tubular microfluidics for 2D and 3D applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10590-10595	11.5	47
375	Correlating the viscoelasticity of breast cancer cells with their malignancy. <i>Convergent Science Physical Oncology</i> , <b>2017</b> , 3, 034003		30
374	Nano-bio interactions between carbon nanomaterials and blood plasma proteins: why oxygen functionality matters. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e422-e422	10.3	24
373	Artificial hagfish protein fibers with ultra-high and tunable stiffness. <i>Nanoscale</i> , <b>2017</b> , 9, 12908-12915	7.7	17
372	Paper-based MoS nanosheet-mediated FRET aptasensor for rapid malaria diagnosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 17510	4.9	22
371	Emergent patterns of collective cell migration under tubular confinement. <i>Nature Communications</i> , <b>2017</b> , 8, 1517	17.4	61
370	Red blood cell motion and deformation in a curved microvessel. <i>Journal of Biomechanics</i> , <b>2017</b> , 65, 12-22.9		14
369	Preface: molecular, cellular, and tissue mechanobiology. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2017</b> , 33, 219-221	2	8
368	Differential Depth Sensing Reduces Cancer Cell Proliferation via Rho-Rac-Regulated Invadopodia. <i>ACS Nano</i> , <b>2017</b> , 11, 7336-7348	16.7	7
367	Single molecule and multiple bond characterization of catch bond associated cytoadhesion in malaria. <i>Scientific Reports</i> , <b>2017</b> , 7, 4208	4.9	9
366	Hybrid smoothed dissipative particle dynamics and immersed boundary method for simulation of red blood cells in flows. <i>Physical Review E</i> , <b>2017</b> , 95, 063314	2.4	34
365	Single-Layer Ternary Chalcogenide Nanosheet as a Fluorescence-Based "Capture-Release" Biomolecular Nanosensor. <i>Small</i> , <b>2017</b> , 13, 1601925	11	24
364	Biocompatibility and Nanotoxicity of Layered Two-Dimensional Nanomaterials. <i>ChemNanoMat</i> , <b>2017</b> , 3, 5-16	3.5	59
363	An extracellular matrix-related prognostic and predictive indicator for early-stage non-small cell lung cancer. <i>Nature Communications</i> , <b>2017</b> , 8, 1734	17.4	59
362	Oriental Coupling Locally Orchestrates a Cell Migration Pattern for Re-Epithelialization. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700145	24	31
361	Uncovering mechanosensing mechanisms at the single protein level using magnetic tweezers. <i>Methods</i> , <b>2016</b> , 94, 13-8	4.6	32
360	Low-Dimensional Transition Metal Dichalcogenide Nanostructures Based Sensors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7034-7056	15.6	156

359	MEKK1-dependent phosphorylation of calponin-3 tunes cell contractility. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 3574-3582	5.3	7
358	Emergence of microfluidic wearable technologies. <i>Lab on A Chip</i> , <b>2016</b> , 16, 4082-4090	7.2	62
357	In situ formation of benzoxazines in polyoxymethylene: a simple approach for retarding formaldehyde generation and tuning mechanical properties under a semi-interpenetrating network. <i>RSC Advances</i> , <b>2016</b> , 6, 91468-91476	3.7	3
356	Ageing properties of polyurethane methacrylate and off-stoichiometry thiol-ene polymers after nitrogen and argon plasma treatment. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	9
355	Epithelial Cell Packing Induces Distinct Modes of Cell Extrusions. <i>Current Biology</i> , <b>2016</b> , 26, 2942-2950	6.3	64
354	TRPV4 Regulates Breast Cancer Cell Extravasation, Stiffness and Actin Cortex. <i>Scientific Reports</i> , <b>2016</b> , 6, 27903	4.9	75
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17	Failure Mechanisms of Interconnections in Drop Impact		4
16	High-speed bend test method and failure prediction for drop impact reliability		15
15	Hygro-thermo-mechanical modeling of mixed flip-chip and wire bond stacked die BGA module with molded underfill		2
14	Advanced experimental and simulation techniques for analysis of dynamic responses during drop impact		8
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12	Board level solder joint failures by static and dynamic loads		11
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5	A Plasmonic Supramolecular Nanohybrid as a Contrast Agent for Site-Selective Computed Tomography Imaging of Tumor. <i>Advanced Functional Materials</i> ,2110575	15.6	1
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1	Reticulocyte Infection Leads to Altered Behaviour, Drug Sensitivity and Host Cell Remodelling by Plasmodium falciparum		1