# Ming Dao

## List of Publications by Citations

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168 56 14,419 119 h-index g-index citations papers 16,437 6.5 6.3 187 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
168	Computational modeling of the forward and reverse problems in instrumented sharp indentation. <i>Acta Materialia</i> , <b>2001</b> , 49, 3899-3918	8.4	1049
167	Toward a quantitative understanding of mechanical behavior of nanocrystalline metals. <i>Acta Materialia</i> , <b>2007</b> , 55, 4041-4065	8.4	859
166	Connections between single-cell biomechanics and human disease states: gastrointestinal cancer and malaria. <i>Acta Biomaterialia</i> , <b>2005</b> , 1, 15-30	10.8	619
165	Mechanics of the human red blood cell deformed by optical tweezers. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2003</b> , 51, 2259-2280	5	567
164	Nano-sized twins induce high rate sensitivity of flow stress in pure copper. <i>Acta Materialia</i> , <b>2005</b> , 53, 2169-2179	8.4	540
163	Acoustic separation of circulating tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4970-5	11.5	497
162	Some critical experiments on the strain-rate sensitivity of nanocrystalline nickel. <i>Acta Materialia</i> , <b>2003</b> , 51, 5159-5172	8.4	471
161	Isolation of exosomes from whole blood by integrating acoustics and microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10584-10589	11.5	405
160	Strength, strain-rate sensitivity and ductility of copper with nanoscale twins. <i>Acta Materialia</i> , <b>2006</b> , 54, 5421-5432	8.4	403
159	Cold spray coating: review of material systems and future perspectives. <i>Surface Engineering</i> , <b>2014</b> , 30, 369-395	2.6	386
158	Indentation across size scales and disciplines: Recent developments in experimentation and modeling. <i>Acta Materialia</i> , <b>2007</b> , 55, 4015-4039	8.4	348
157	Spectrin-level modeling of the cytoskeleton and optical tweezers stretching of the erythrocyte. <i>Biophysical Journal</i> , <b>2005</b> , 88, 3707-19	2.9	327
156	Nanoscale heterogeneity promotes energy dissipation in bone. <i>Nature Materials</i> , <b>2007</b> , 6, 454-62	27	324
155	Three-dimensional manipulation of single cells using surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1522-7	11.5	318
154	Cell separation using tilted-angle standing surface acoustic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 12992-7	11.5	309
153	Shape and Biomechanical Characteristics of Human Red Blood Cells in Health and Disease. <i>MRS Bulletin</i> , <b>2010</b> , 35, 382-388	3.2	302
152	Study of mechanical deformation in bulk metallic glass through instrumented indentation. <i>Acta Materialia</i> , <b>2001</b> , 49, 3781-3789	8.4	286

151	Depth-sensing instrumented indentation with dual sharp indenters. Acta Materialia, 2003, 51, 3713-37	298.4	267
150	Cytoskeletal dynamics of human erythrocyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 4937-42	11.5	204
149	A microfabricated deformability-based flow cytometer with application to malaria. <i>Lab on A Chip</i> , <b>2011</b> , 11, 1065-73	7.2	187
148	High-resolution three-dimensional imaging of red blood cells parasitized by Plasmodium falciparum and in situ hemozoin crystals using optical diffraction tomography. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 011005	3.5	169
147	Effect of plasmodial RESA protein on deformability of human red blood cells harboring Plasmodium falciparum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 9213-7	11.5	161
146	Protection mechanisms of the iron-plated armor of a deep-sea hydrothermal vent gastropod. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 987-92	11.5	160
145	Modeling grain size dependent optimal twin spacing for achieving ultimate high strength and related high ductility in nanotwinned metals. <i>Acta Materialia</i> , <b>2011</b> , 59, 5544-5557	8.4	159
144	Molecularly based analysis of deformation of spectrin network and human erythrocyte. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 1232-1244	8.3	157
143	Ultralarge elastic deformation of nanoscale diamond. Science, 2018, 360, 300-302	33.3	151
142	Probing circulating tumor cells in microfluidics. <i>Lab on A Chip</i> , <b>2013</b> , 13, 602-9	7.2	145
142	Probing circulating tumor cells in microfluidics. <i>Lab on A Chip</i> , <b>2013</b> , 13, 602-9  Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta Materialia</i> , <b>2011</b> , 59, 2437-2446	7.2 8.4	145
<u> </u>	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta</i>		
141	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta Materialia</i> , <b>2011</b> , 59, 2437-2446	8.4	143
141	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta Materialia</i> , <b>2011</b> , 59, 2437-2446  Large deformation of living cells using laser traps. <i>Acta Materialia</i> , <b>2004</b> , 52, 1837-1845  Stress relaxation and the structure size-dependence of plastic deformation in nanotwinned copper.	8.4	143 136
141 140 139	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta Materialia</i> , <b>2011</b> , 59, 2437-2446  Large deformation of living cells using laser traps. <i>Acta Materialia</i> , <b>2004</b> , 52, 1837-1845  Stress relaxation and the structure size-dependence of plastic deformation in nanotwinned copper. <i>Acta Materialia</i> , <b>2009</b> , 57, 5165-5173  Biomechanics of red blood cells in human spleen and consequences for physiology and disease.	8.4 8.4 8.4	143 136 127
141 140 139	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta Materialia</i> , <b>2011</b> , 59, 2437-2446  Large deformation of living cells using laser traps. <i>Acta Materialia</i> , <b>2004</b> , 52, 1837-1845  Stress relaxation and the structure size-dependence of plastic deformation in nanotwinned copper. <i>Acta Materialia</i> , <b>2009</b> , 57, 5165-5173  Biomechanics of red blood cells in human spleen and consequences for physiology and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7804-9  Lipid bilayer and cytoskeletal interactions in a red blood cell. <i>Proceedings of the National Academy</i>	8.4 8.4 8.4	143 136 127 124
141 140 139 138	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <i>Acta Materialia</i> , <b>2011</b> , 59, 2437-2446  Large deformation of living cells using laser traps. <i>Acta Materialia</i> , <b>2004</b> , 52, 1837-1845  Stress relaxation and the structure size-dependence of plastic deformation in nanotwinned copper. <i>Acta Materialia</i> , <b>2009</b> , 57, 5165-5173  Biomechanics of red blood cells in human spleen and consequences for physiology and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7804-9  Lipid bilayer and cytoskeletal interactions in a red blood cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13356-61	8.4 8.4 11.5	143 136 127 124 123

133	Optical measurement of biomechanical properties of individual erythrocytes from a sickle cell patient. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 4130-8	10.8	87
132	Host cell deformability is linked to transmission in the human malaria parasite Plasmodium falciparum. <i>Cellular Microbiology</i> , <b>2012</b> , 14, 983-93	3.9	8o
131	Size dependence of rate-controlling deformation mechanisms in nanotwinned copper. <i>Scripta Materialia</i> , <b>2009</b> , 60, 1062-1066	5.6	79
130	Nonlinear elastic and viscoelastic deformation of the human red blood cell with optical tweezers. <i>Mcb Mechanics and Chemistry of Biosystems</i> , <b>2004</b> , 1, 169-80		76
129	Combined simulation and experimental study of large deformation of red blood cells in microfluidic systems. <i>Annals of Biomedical Engineering</i> , <b>2011</b> , 39, 1041-50	4.7	74
128	Mechanics of indentation of plastically graded materials Analysis. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 157-171	5	72
127	Circulating Tumor Cell Phenotyping via High-Throughput Acoustic Separation. Small, 2018, 14, e180113	111	71
126	Kinetics of sickle cell biorheology and implications for painful vasoocclusive crisis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 1422-7	11.5	70
125	Effects of mechanical properties and surface friction on elasto-plastic sliding contact. <i>Mechanics of Materials</i> , <b>2008</b> , 40, 206-219	3.3	69
124	A micromechanical study of residual stresses in functionally graded materials. <i>Acta Materialia</i> , <b>1997</b> , 45, 3265-3276	8.4	68
123	Electric impedance microflow cytometry for characterization of cell disease states. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3903-3909	7.2	67
122	A micromechanics study on strain-localization-induced fracture initiation in bending using crystal plasticity models. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2001</b> , 81, 1997-2020		66
121	Biophysics of malarial parasite exit from infected erythrocytes. <i>PLoS ONE</i> , <b>2011</b> , 6, e20869	3.7	65
120	Quantitative Biomechanics of Healthy and Diseased Human Red Blood Cells using Dielectrophoresis in a Microfluidic System. <i>Extreme Mechanics Letters</i> , <b>2014</b> , 1, 35-41	3.9	64
119	A unified mechanistic model for size-dependent deformation in nanocrystalline and nanotwinned metals. <i>Acta Materialia</i> , <b>2011</b> , 59, 6861-6868	8.4	63
118	Mechanics of indentation of plastically graded materials II: Experiments on nanocrystalline alloys with grain size gradients. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 172-183	5	62
117	Three-dimensional model of strength and ductility of polycrystalline copper containing nanoscale twins. <i>Acta Materialia</i> , <b>2008</b> , 56, 4647-4657	8.4	62
116	Extraction of mechanical properties of materials through deep learning from instrumented indentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 7052-7062	11.5	60

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115	Computational biorheology of human blood flow in health and disease. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 368-87	4.7	60
114	Single-cell evaluation of red blood cell bio-mechanical and nano-structural alterations upon chemically induced oxidative stress. <i>Scientific Reports</i> , <b>2015</b> , 5, 9768	4.9	59
113	Biomechanics and biorheology of red blood cells in sickle cell anemia. <i>Journal of Biomechanics</i> , <b>2017</b> , 50, 34-41	2.9	58
112	Human natural killer cells control Plasmodium falciparum infection by eliminating infected red blood cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1479-84	11.5	56
111	The frictional sliding response of elasto-plastic materials in contact with a conical indenter. <i>International Journal of Solids and Structures</i> , <b>2007</b> , 44, 1970-1989	3.1	56
110	Real-time, high-resolution study of nanocrystallization and fatigue cracking in a cyclically strained metallic glass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 19725-30	11.5	55
109	Non-Schmid effects and localized plastic flow in intermetallic alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1993</b> , 170, 143-160	5.3	55
108	Probing red blood cell mechanics, rheology and dynamics with a two-component multi-scale model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2014</b> , 372,	3	54
107	A study on failure prediction and design criteria for fiber composites under fire degradation. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>1999</b> , 30, 123-131	8.4	53
106	Mechanics of diseased red blood cells in human spleen and consequences for hereditary blood disorders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9574-9579	11.5	52
105	Ballistic performance of nanocrystalline and nanotwinned ultrafine crystal steel. <i>Acta Materialia</i> , <b>2012</b> , 60, 1353-1367	8.4	51
104	Improved fatigue resistance of gradient nanograined Cu. Acta Materialia, 2019, 166, 56-66	8.4	51
103	Deep elastic strain engineering of bandgap through machine learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 4117-4122	11.5	50
102	Pf155/RESA protein influences the dynamic microcirculatory behavior of ring-stage Plasmodium falciparum infected red blood cells. <i>Scientific Reports</i> , <b>2012</b> , 2, 614	4.9	50
101	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
100	Bio-inspired interfacial strengthening strategy through geometrically interlocking designs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 15, 70-7	4.1	45
99	Numerical simulations of plastic deformation and fracture effects in two phase ITiAl + 2-Ti3Al lamellar microstructures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1995</b> , 71, 567-604		44
98	Dynamic deformability of Plasmodium falciparum-infected erythrocytes exposed to artesunate in vitro. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 414-22	3.7	43

97 	instrumented indentation. <i>Philosophical Magazine</i> , <b>2003</b> , 83, 3959-3976	1.6	43
96	Patient-specific blood rheology in sickle-cell anaemia. <i>Interface Focus</i> , <b>2016</b> , 6, 20150065	3.9	42
95	Fracture, fatigue, and creep of nanotwinned metals. MRS Bulletin, 2016, 41, 298-304	3.2	42
94	Modeling of shrinkage during investment casting of thin-walled hollow turbine blades. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 244, 190-203	5.3	41
93	Steady-state frictional sliding contact on surfaces of plastically graded materials. <i>Acta Materialia</i> , <b>2009</b> , 57, 511-524	8.4	40
92	Size-dependent heterogeneity benefits the mechanical performance of bone. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2011</b> , 59, 64-74	5	40
91	Low-temperature creep of SnPb and SnAgCu solder alloys and reliability prediction in electronic packaging modules. <i>Scripta Materialia</i> , <b>2013</b> , 68, 607-610	5.6	37
90	Localized deformation modes and non-Schmid effects in crystalline solids. Part I. Critical conditions of localization. <i>Mechanics of Materials</i> , <b>1996</b> , 23, 71-102	3.3	37
89	Deformation, structural changes and damage evolution in nanotwinned copper under repeated frictional contact sliding. <i>Acta Materialia</i> , <b>2011</b> , 59, 7311-7324	8.4	35
88	Reprint of: Connections between single-cell biomechanics and human disease states: gastrointestinal cancer and malaria. <i>Acta Biomaterialia</i> , <b>2015</b> , 23 Suppl, S3-15	10.8	34
87	Cyclic deformation leads to defect healing and strengthening of small-volume metal crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13502-7	11.5	33
86	Simultaneous polymerization and adhesion under hypoxia in sickle cell disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9473-9478	11.5	31
85	Nature-Inspired Hierarchical Steels. <i>Scientific Reports</i> , <b>2018</b> , 8, 5088	4.9	30
84	In vivo splenic clearance correlates with in vitro deformability of red blood cells from Plasmodium yoelii-infected mice. <i>Infection and Immunity</i> , <b>2014</b> , 82, 2532-41	3.7	30
83	Cellular normoxic biophysical markers of hydroxyurea treatment in sickle cell disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9527-32	11.5	30
82	Sliding of coherent twin boundaries. <i>Nature Communications</i> , <b>2017</b> , 8, 1108	17.4	29
81	Cytoskeleton Remodeling Induces Membrane Stiffness and Stability Changes of Maturing Reticulocytes. <i>Biophysical Journal</i> , <b>2018</b> , 114, 2014-2023	2.9	29
80	Deformation and fracture under compressive loading in lamellar TiAl microstructures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1996</b> , 74, 569-59	91	29

79	Continuum modeling of a neuronal cell under blast loading. Acta Biomaterialia, 2012, 8, 3360-71	10.8	28
78	Probing the cytoadherence of malaria infected red blood cells under flow. <i>PLoS ONE</i> , <b>2013</b> , 8, e64763	3.7	28
77	A precise correcting method for the study of the superhard material using nanoindentation tests. Journal of Materials Research, <b>2007</b> , 22, 1255-1264	2.5	28
76	Small molecule targeting malaria merozoite surface protein-1 (MSP-1) prevents host invasion of divergent plasmodial species. <i>Journal of Infectious Diseases</i> , <b>2014</b> , 210, 1616-26	7	27
75	Orientation and size-dependent mechanical modulation within individual secondary osteons in cortical bone tissue. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20120953	4.1	27
74	A Basis for Rapid Clearance of Circulating Ring-Stage Malaria Parasites by the Spiroindolone KAE609. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 213, 100-4	7	25
73	Cytoadherence of erythrocytes invaded by Plasmodium falciparum: quantitative contact-probing of a human malaria receptor. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6349-59	10.8	25
72	Prediction of the Constitutive Equation for Uniaxial Creep of a Power-Law Material through Instrumented Microindentation Testing and Modeling. <i>Materials Transactions</i> , <b>2014</b> , 55, 275-284	1.3	23
71	A new method for evaluating the plastic properties of materials through instrumented frictional sliding tests. <i>Acta Materialia</i> , <b>2010</b> , 58, 6385-6392	8.4	23
70	Analysis of size-dependent slip transfer and inter-twin flow stress in a nanotwinned fcc metal. <i>Acta Materialia</i> , <b>2014</b> , 67, 409-417	8.4	22
69	Structure and property changes in certain materials influenced by the external qi of qigong. <i>Materials Research Innovations</i> , <b>1999</b> , 2, 349-359	1.9	22
68	Artificial intelligence velocimetry and microaneurysm-on-a-chip for three-dimensional analysis of blood flow in physiology and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	21
67	A modified model for deformation via partial dislocations and stacking faults at the nanoscale. <i>Scripta Materialia</i> , <b>2010</b> , 62, 361-364	5.6	20
66	Analysis on Pseudo-Steady Indentation Creep. Acta Mechanica Solida Sinica, 2008, 21, 283-288	2	20
65	Numerical simulations of stress-strain behavior in two-phase ₹ + □amellar TiAl alloys. <i>Materials Science &amp; A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1995</b> , 192-193, 97-103	5.3	20
64	Microstructural and Mechanical-Property Manipulation through Rapid Dendrite Growth and Undercooling in an Fe-based Multinary Alloy. <i>Scientific Reports</i> , <b>2016</b> , 6, 31684	4.9	20
63	Effects of notches on the deformation behavior of submicron sized metallic glasses: Insights from in situ experiments. <i>Acta Materialia</i> , <b>2018</b> , 154, 172-181	8.4	20
62	De Novo Generated Human Red Blood Cells in Humanized Mice Support Plasmodium falciparum Infection. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129825	3.7	19

Exposure of Stored Packed Erythrocytes to Nitric Oxide Prevents Transfusion-associated

Febrile Temperature Elevates the Expression of Phosphatidylserine on Plasmodium falciparum (FCR3CSA) Infected Red Blood Cell Surface Leading to Increased Cytoadhesion. *Scientific Reports*,

Pulmonary Hypertension. Anesthesiology, 2016, 125, 952-963

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### (2008-2016)

43	Image classification of unlabeled malaria parasites in red blood cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 3981-3984	0.9	8
42	On the critical conditions of kink band formation in fiber composites with ductile matrix. <i>Scripta Materialia</i> , <b>1996</b> , 34, 1771-1777	5.6	8
41	Size-dependent deformation in nanograins and nanotwins. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 091904	3.4	7
40	Comparative Effect of Rapid Dendrite Growth and Element Addition on Microhardness Enhancement of Fe-Based Alloys. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5661-5664	3.5	7
39	Direct isolation of circulating extracellular vesicles from blood for vascular risk profiling in type 2 diabetes mellitus. <i>Lab on A Chip</i> , <b>2021</b> , 21, 2511-2523	7.2	7
38	Solid-state additive manufacturing of porous Ti-6Al-4V by supersonic impact. <i>Applied Materials Today</i> , <b>2020</b> , 21, 100865	6.6	6
37	Mechanism of intense shear failure in Ni3Al single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1997</b> , 75, 443-459		6
36	Coarse slip bands and the transition to macroscopic shear bands. <i>Scripta Metallurgica Et Materialia</i> , <b>1994</b> , 30, 791-796		6
35	Patient-Specific Organoid and Organ-on-a-Chip: 3D Cell-Culture Meets 3D Printing and Numerical Simulation. <i>Advanced Biology</i> , <b>2021</b> , 5, e2000024		6
34	Machine learning for deep elastic strain engineering of semiconductor electronic band structure and effective mass. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	6
33	Characterization of the strain-rate-dependent mechanical response of single cell-cell junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
32	PSEUDO-STEADY INDENTATION CREEP. International Journal of Modern Physics B, <b>2010</b> , 24, 227-237	1.1	5
31	Computational modeling of biomechanics and biorheology of heated red blood cells. <i>Biophysical Journal</i> , <b>2021</b> , 120, 4663-4671	2.9	5
30	Rolling behavior of a micro-cylinder in adhesional contact. <i>Scientific Reports</i> , <b>2016</b> , 6, 34063	4.9	4
29	Revisiting the intra-granular dislocation extension model for flow stress in nanocrystalline metals. <i>Philosophical Magazine Letters</i> , <b>2012</b> , 92, 111-121	1	4
28	Detecting the Transition of Creep Rate-Controlling Process in Al-Mg Solid-Solution Alloy through Instrumented Indentation. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2005</b> , 69, 348-355	0.4	4
27	assay for single-cell characterization of impaired deformability in red blood cells under recurrent episodes of hypoxia. <i>Lab on A Chip</i> , <b>2021</b> , 21, 3458-3470	7.2	4
26	Some Practical Issues of Curvature and Thermal Stress in Realistic Multilevel Metal Interconnect Structures. <i>Journal of Electronic Materials</i> , <b>2008</b> , 37, 777-791	1.9	3

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25	Experimental and computational study on the load-jump tests of AlMg solidBolution alloy using instrumented indentation technique. <i>Materials Science &amp; Description of Almg Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 423, 24-27	5.3	3
24	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
23	Faster Sickling Kinetics and Sickle Cell Shape Evolution during Repeated Deoxygenation and Oxygenation Cycles. <i>Experimental Mechanics</i> , <b>2019</b> , 59, 319-325	2.6	3
22	Analyses of internal structures and defects in materials using physics-informed neural networks <i>Science Advances</i> , <b>2022</b> , 8, eabk0644	14.3	3
21	Two-Component Dissipative Particle Dynamics Model of Red Blood Cells. <i>Biophysical Journal</i> , <b>2014</b> , 106, 573a	2.9	2
20	Micromechanics of Deformation and Fracture in Low Symmetry Layered Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 434, 141		2
19	Microfluidic Size Exclusion Chromatography (BEC) for Extracellular Vesicles and Plasma Protein Separation <i>Small</i> , <b>2022</b> , e2104470	11	2
18	Quantification of Anti-Sickling Effect of Aes-103 in Sickle Cell Disease Using an in Vitro Microfluidic Assay. <i>Blood</i> , <b>2014</b> , 124, 2699-2699	2.2	2
17	Computational Modeling of the Micropipette Aspiration of Malaria Infected Erythrocytes. <i>IFMBE Proceedings</i> , <b>2009</b> , 1788-1791	0.2	2
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