

Tobin Filleter

List of Publications by Citations

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98
papers

4,073
citations

31
h-index

63
g-index

106
ext. papers

4,996
ext. citations

9.6
avg, IF

5.57
L-index

#	Paper	IF	Citations
98	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , 2016 , 537, 382-386	38.6	997
97	Friction and dissipation in epitaxial graphene films. <i>Physical Review Letters</i> , 2009 , 102, 086102	7.4	412
96	Local work function measurements of epitaxial graphene. <i>Applied Physics Letters</i> , 2008 , 93, 133117	3.4	186
95	Ultrahigh strength and stiffness in cross-linked hierarchical carbon nanotube bundles. <i>Advanced Materials</i> , 2011 , 23, 2855-60	24	182
94	High strength measurement of monolayer graphene oxide. <i>Carbon</i> , 2015 , 81, 497-504	10.4	117
93	Structural and frictional properties of graphene films on SiC(0001) studied by atomic force microscopy. <i>Physical Review B</i> , 2010 , 81,	3.3	114
92	A multiscale study of high performance double-walled nanotube-polymer fibers. <i>ACS Nano</i> , 2010 , 4, 6463-66	13.6	109
91	Fluctuations and jump dynamics in atomic friction experiments. <i>Physical Review B</i> , 2005 , 72,	3.3	100
90	Enhanced Electrical and Electromagnetic Interference Shielding Properties of Polymer-Graphene Nanoplatelet Composites Fabricated via Supercritical-Fluid Treatment and Physical Foaming. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30752-30761	9.5	99
89	Enhanced Thermal Conductivity of Graphene Nanoplatelet-Polymer Nanocomposites Fabricated via Supercritical Fluid-Assisted in Situ Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1225-1236	9.5	88
88	Nucleation-controlled distributed plasticity in penta-twinned silver nanowires. <i>Small</i> , 2012 , 8, 2986-93	11	83
87	Multi-scale mechanical improvement produced in carbon nanotube fibers by irradiation cross-linking. <i>Carbon</i> , 2013 , 56, 1-11	10.4	79
86	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. <i>Matter</i> , 2019 , 1, 1215-1231	12.7	72
85	In situ TEM electromechanical testing of nanowires and nanotubes. <i>Small</i> , 2012 , 8, 3233-52	11	68
84	Ultralight Microcellular Polymer-Graphene Nanoplatelet Foams with Enhanced Dielectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19987-19998	9.5	61
83	Fatigue of graphene. <i>Nature Materials</i> , 2020 , 19, 405-411	27	59
82	Interfacial Shear Strength of Multilayer Graphene Oxide Films. <i>ACS Nano</i> , 2016 , 10, 1939-47	16.7	55

81	Effect of Humidity and Water Intercalation on the Tribological Behavior of Graphene and Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22537-22544	9.5	50
80	Experimental-computational study of shear interactions within double-walled carbon nanotube bundles. <i>Nano Letters</i> , 2012 , 12, 732-42	11.5	49
79	Nonlinear fracture toughness measurement and crack propagation resistance of functionalized graphene multilayers. <i>Science Advances</i> , 2018 , 4, eaao7202	14.3	48
78	Strengthening in Graphene Oxide Nanosheets: Bridging the Gap between Interplanar and Intraplanar Fracture. <i>Nano Letters</i> , 2015 , 15, 6528-34	11.5	45
77	Atomic structure and friction of ultrathin films of KBr on Cu(100). <i>Physical Review B</i> , 2008 , 77,	3.3	43
76	Mechanical stability of the cell nucleus - roles played by the cytoskeleton in nuclear deformation and strain recovery. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	43
75	Multiscale experimental mechanics of hierarchical carbon-based materials. <i>Advanced Materials</i> , 2012 , 24, 2805-23	24	42
74	Atomistic Investigation of Load Transfer Between DWNT Bundles Crosslinked by PMMA Oligomers. <i>Advanced Functional Materials</i> , 2013 , 23, 1883-1892	15.6	40
73	Conductive network formation and destruction in polypropylene/carbon nanotube composites via crystal control using supercritical carbon dioxide. <i>Polymer</i> , 2017 , 129, 179-188	3.9	39
72	Highly stretchable conductive thermoplastic vulcanizate/carbon nanotube nanocomposites with segregated structure, low percolation threshold and improved cyclic electromechanical performance. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 350-359	7.1	39
71	Effect of structure on the tribology of ultrathin graphene and graphene oxide films. <i>Nanotechnology</i> , 2015 , 26, 135702	3.4	37
70	Microscopic Friction Studies on Metal Surfaces. <i>Tribology Letters</i> , 2010 , 39, 19-24	2.8	36
69	Quantum-size-tuned heterostructures enable efficient and stable inverted perovskite solar cells. <i>Nature Photonics</i> ,	33.9	35
68	Characterizing mechanical behavior of atomically thin films: A review. <i>Journal of Materials Research</i> , 2014 , 29, 338-347	2.5	31
67	In situ electron microscopy four-point electromechanical characterization of freestanding metallic and semiconducting nanowires. <i>Small</i> , 2014 , 10, 725-33	11	31
66	Atomic-scale yield and dislocation nucleation in KBr. <i>Physical Review B</i> , 2006 , 73,	3.3	31
65	Statistical shear lag model - unraveling the size effect in hierarchical composites. <i>Acta Biomaterialia</i> , 2015 , 18, 206-12	10.8	28
64	Toughening of graphene-based polymer nanocomposites via tuning chemical functionalization. <i>Composites Science and Technology</i> , 2020 , 194, 108140	8.6	27

63	Improvements in the mechanical properties of carbon nanotube fibers through graphene oxide interlocking. <i>Carbon</i> , 2016 , 98, 291-299	10.4	27
62	An NDT guided wave technique for the identification of corrosion defects at support locations. <i>NDT and E International</i> , 2015 , 75, 72-79	4.1	26
61	Multication perovskite 2D/3D interfaces form via progressive dimensional reduction. <i>Nature Communications</i> , 2021 , 12, 3472	17.4	24
60	Effects of polymer-filler interactions on controlling the conductive network formation in polyamide 6/multi-Walled carbon nanotube composites. <i>Polymer</i> , 2019 , 178, 121684	3.9	23
59	Tailoring the Mechanical and Electrochemical Properties of an Artificial Interphase for High-Performance Metallic Lithium Anode. <i>Advanced Energy Materials</i> , 2020 , 10, 2001139	21.8	21
58	Hexagonal Boron Nitride for Sulfur Corrosion Inhibition. <i>ACS Nano</i> , 2020 , 14, 14809-14819	16.7	21
57	Atomic Friction Investigations on Ordered Superstructures. <i>Tribology Letters</i> , 2010 , 39, 321-327	2.8	20
56	A kelvin probe force microscopy of charged indentation-induced dislocation structures in KBr. <i>Nanotechnology</i> , 2009 , 20, 264005	3.4	19
55	Surface and Mechanical Characterization of Dental Yttria-Stabilized Tetragonal Zirconia Polycrystals (3Y-TZP) After Different Aging Processes. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1179-1188	0.5	19
54	Insight into the Directional Thermal Transport of Hexagonal Boron Nitride Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41726-41735	9.5	18
53	Asymmetry in the reciprocal epitaxy of NaCl and KBr. <i>Physical Review B</i> , 2007 , 75,	3.3	18
52	Nanometre-scale plasticity of Cu(100). <i>Nanotechnology</i> , 2007 , 18, 044004	3.4	18
51	Role of graphene in enhancing the mechanical properties of TiO/graphene heterostructures. <i>Nanoscale</i> , 2017 , 9, 11678-11684	7.7	17
50	An Insight into the Phase Transformation of WS upon Fluorination. <i>Advanced Materials</i> , 2018 , 30, e1803366	1.6	15
49	Inherent carbonaceous impurities on arc-discharge multiwalled carbon nanotubes and their implications for nanoscale interfaces. <i>Carbon</i> , 2014 , 80, 1-11	10.4	13
48	In situ TEM tensile testing of carbon-linked graphene oxide nanosheets using a MEMS device. <i>Nanotechnology</i> , 2016 , 27, 28LT01	3.4	13
47	Graphene fatigue through van der Waals interactions. <i>Science Advances</i> , 2020 , 6,	14.3	12
46	Effect of lattice stacking orientation and local thickness variation on the mechanical behavior of few layer graphene oxide. <i>Carbon</i> , 2018 , 136, 168-175	10.4	11

45	Interpretation of atomic friction experiments based on atomistic simulations. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1547		11
44	Enhanced electromagnetic wave absorption performance of polymer/SiC-nanowire/MXene (Ti3C2Tx) composites. <i>Carbon</i> , 2021 , 179, 408-416	10.4	11
43	Nanomechanical elasticity and fracture studies of lithium phosphate (LPO) and lithium tantalate (LTO) solid-state electrolytes. <i>Nanoscale</i> , 2019 , 11, 18730-18738	7.7	11
42	Investigating the detection limit of subsurface holes under graphite with atomic force acoustic microscopy. <i>Nanoscale</i> , 2019 , 11, 10961-10967	7.7	10
41	Understanding the Independent and Interdependent Role of Water and Oxidation on the Tribology of Ultrathin Molybdenum Disulfide (MoS2). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901246	4.6	10
40	Evaluation of a Magnetic Dipole Model in a DC Magnetic Flux Leakage System. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	9
39	Optimization of Periodic Permanent Magnet Configuration in Lorentz-Force EMATs. <i>Research in Nondestructive Evaluation</i> , 2018 , 29, 95-108	0.9	9
38	Structure-Dependent Wear and Shear Mechanics of Nanostructured MoS2 Coatings. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901870	4.6	6
37	High Temperature Microtribological Studies of MoS2 Lubrication for Low Earth Orbit. <i>Lubricants</i> , 2020 , 8, 49	3.1	6
36	Electrically and thermally graded microcellular polymer/graphene nanoplatelet composite foams and their EMI shielding properties. <i>Carbon</i> , 2021 ,	10.4	5
35	Damage-tolerant 3D-printed ceramics via conformal coating. <i>Science Advances</i> , 2021 , 7,	14.3	5
34	Influence of different design parameters on a coplanar capacitive sensor performance. <i>NDT and E International</i> , 2022 , 126, 102588	4.1	4
33	Friction of magnetene, a non-van der Waals 2D material. <i>Science Advances</i> , 2021 , 7, eabk2041	14.3	4
32	Mechanical Characterization of Graphene 2014 , 121-135		4
31	Interfacial Interactions and Tribological Behavior of Metal-Oxide/2D-Material Contacts. <i>Tribology Letters</i> , 2021 , 69, 1	2.8	4
30	Role of chemical vs. physical interfacial interaction and adsorbed water on the tribology of ultrathin 2D-material/steel interfaces. <i>Tribology International</i> , 2021 , 163, 107194	4.9	4
29	Work of Adhesion Measurements of MoS2 Dry Lubricated 440C Stainless Steel Tribological Contacts. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700423	3.5	3
28	Mechanical Size Effect of Freestanding Nanoconfined Polymer Films. <i>Macromolecules</i> ,	5.5	3

27	Corrosion Resistance of Sulfur-Selenium Alloy Coatings. <i>Advanced Materials</i> , 2021 , e2104467	24	3
26	Experimental Analysis of Friction and Wear of Self-Lubricating Composites Used for Dry Lubrication of Ball Bearing for Space Applications. <i>Lubricants</i> , 2021 , 9, 38	3.1	3
25	Local strain mapping of GO nanosheets under in situ TEM tensile testing. <i>Applied Materials Today</i> , 2019 , 14, 102-107	6.6	3
24	Static and dynamic calibration of torsional spring constants of cantilevers. <i>Review of Scientific Instruments</i> , 2018 , 89, 093701	1.7	3
23	Enhanced sensitivity of nanoscale subsurface imaging by photothermal excitation in atomic force microscopy. <i>Review of Scientific Instruments</i> , 2020 , 91, 063703	1.7	2
22	Mechanical characterization of thin films using a MEMS device inside SEM 2015 ,		2
21	Nano-meter scale plasticity in KBr studied by nanoindenter and force microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1185, 90		2
20	High Performance Space Lubrication of MoS ₂ with Tantalum. <i>Advanced Functional Materials</i> , 2110429	15.6	2
19	Gas-Phase Fluorination of Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2021 , e2106084	24	2
18	Numerical Simulation and Experimental Study of Capacitive Imaging Technique as a Nondestructive Testing Method. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3804	2.6	2
17	Fatigue resistance of atomically thin graphene oxide. <i>Carbon</i> , 2021 , 183, 780-788	10.4	2
16	Low energy proton irradiation tolerance of molybdenum disulfide lubricants. <i>Applied Surface Science</i> , 2021 , 567, 150677	6.7	2
15	Multi-electrode coplanar capacitive probe with various arrangements for non-destructive testing of materials. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	2
14	Thermally conductive polymer-graphene nanoplatelet composite foams 2019 ,		1
13	In-Situ TEM Electromechanical Testing of Nanowires and Nanotubes 2012 , 191-226		1
12	Influence of Magnetostriction Induced by the Periodic Permanent Magnet Electromagnetic Acoustic Transducer (PPM EMAT) on Steel. <i>Sensors</i> , 2021 , 21,	3.8	1
11	Scalable Characterization of 2D Gallium-Intercalated Epitaxial Graphene. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55428-55439	9.5	1
10	Fracture and Fatigue of AlO-Graphene Nanolayers. <i>Nano Letters</i> , 2021 , 21, 437-444	11.5	1

9	Clean manufacturing of nanocellulose-reinforced hydrophobic flexible substrates. <i>Journal of Cleaner Production</i> , 2021 , 293, 126141	10.3	1
8	Enhancement of Defect Characterization with AC Magnetic Flux Leakage: Far-side Defect Shape Estimation and Sensor Lift-off Compensation. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	1
7	Reference Specimen for Nondestructive Evaluation: Characterization of the Oxide Layer of a Cold Shot in Inconel 600. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 875-884	1.6	
6	Nanoscale Mechanical Characterization of 1D and 2D Materials with Application to Nanocomposites 2016 , 77-95		
5	Multiscale Experimental Mechanics of Hierarchical Carbon-Based Materials 2012 , 95-127		
4	Carbon Nanotubes: Atomistic Investigation of Load Transfer Between DWNT Bundles [Crosslinked] by PMMA Oligomers (Adv. Funct. Mater. 15/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 1976-1976	15.6	
3	In Situ Transmission Electron Microscopy: Mechanical Testing 2016 , 1543-1554		
2	Sectorization of Macromolecular Single Crystals Unveiled by Probing Shear Anisotropy.. <i>ACS Macro Letters</i> , 2022 , 11, 53-59	6.6	
1	High Performance Space Lubrication of MoS ₂ with Tantalum (Adv. Funct. Mater. 20/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270117	15.6	