

Wei Hua

List of Publications by Year in descending order

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54
papers

450
citations

840776

11
h-index

839539

18
g-index

54
all docs

54
docs citations

54
times ranked

181
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimentâ€™Simulation Comparison in Liquid Filling Process Driven by Capillarity. <i>Micromachines</i> , 2022, 13, 1098.	2.9	0
2	Maximization of the capillary pump efficiency in microfluidics. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	4
3	Investigation of slider out-of-plane and in-plane vibrations during the track-seeking process. <i>Microsystem Technologies</i> , 2016, 22, 1189-1197.	2.0	2
4	Dynamics of head-disk interface in hard disk drives during operational shock. <i>Microsystem Technologies</i> , 2016, 22, 1389-1395.	2.0	4
5	Direct Monte Carlo simulation of nanoscale mixed gas bearings. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401558952.	1.6	5
6	Operational shock response of ultrathin hard disk drives. <i>Microsystem Technologies</i> , 2015, 21, 2573-2579.	2.0	3
7	Electrostatic Force Manipulation Methodology: Principles, Mechanisms, and Setup for Headâ€™Disk Interactions Monitoring. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-8.	2.1	0
8	Heater AC Voltage Induced Flying Height Modulations. <i>Journal of Tribology</i> , 2014, 136, .	1.9	2
9	Flying Height Drop Due to Air Entrapment in Lubricant. <i>Tribology Letters</i> , 2013, 52, 137-145.	2.6	0
10	A modified slip model for gas lubrication at nanoscale head-disk interface. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2013, 227, 1367-1375.	1.8	4
11	Slider Posture Effects on Air Bearing in a Heat-Assisted Magnetic Recording System. <i>Advances in Tribology</i> , 2012, 2012, 1-6.	2.1	2
12	Effect of Interfacial Roughness on Slider-Disk Interactions at Near-Contact Regime. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 4459-4462.	2.1	4
13	A Fast Implicit Algorithm for Time-Dependent Dynamic Simulations of Air Bearing Sliders. <i>Journal of Tribology</i> , 2012, 134, .	1.9	7
14	Frequency Analyses of Air Bearing Slider in Near Contact and Contact States. <i>Tribology Letters</i> , 2012, 48, 345-353.	2.6	6
15	Lubricant evolution and depletion under laser heating: a molecular dynamics study. <i>Soft Matter</i> , 2012, 8, 5649.	2.7	42
16	Air Bearing Features on Discrete Track Media. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 1813-1816.	2.1	0
17	Dynamic Studies on Lube-Surfing Recording. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3578-3581.	2.1	1
18	Direct Monte Carlo Simulations of Air Bearing Characteristics on Patterned Media. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2660-2663.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Thermal protrusion induced air bearing frequency variations. <i>Microsystem Technologies</i> , 2011, 17, 891-896.	2.0	9
20	Direct Monte Carlo simulation of air bearing effects in heat-assisted magnetic recording. <i>Microsystem Technologies</i> , 2011, 17, 903-909.	2.0	13
21	Effects of environmental temperature and humidity on thermal flying height adjustment. <i>Microsystem Technologies</i> , 2010, 16, 49-55.	2.0	3
22	Slider surface control for ultra-high density recording. <i>Microsystem Technologies</i> , 2010, 16, 301-307.	2.0	2
23	Contact recording review. <i>Microsystem Technologies</i> , 2010, 16, 493-503.	2.0	13
24	Slider Design Optimization for Lube-Surfing Head-Disk Interface Scheme. <i>IEEE Transactions on Magnetism</i> , 2010, 46, 1922-1924.	2.1	10
25	Numerical Simulations of Accommodation Coefficient Effects at the Head-Disk Interface. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 095206.	1.5	6
26	Influences of Surface Topography on the Flying Performances of a Sub-3 nm Air Bearing Slider. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 125202.	1.5	4
27	Effects of Gas Physical Properties on Flying Performance of Air Bearing Slider. <i>IEEE Transactions on Magnetism</i> , 2010, 46, 1389-1392.	2.1	6
28	Nanoscale roughness contact in a slider-disk interface. <i>Nanotechnology</i> , 2009, 20, 285710.	2.6	21
29	Numerical Studies of Heat Transfer in Rarefied Gases at Head-Disk Interface. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 105005.	1.5	6
30	Effect of environment humidity and temperature on stationary and transient flying responses of air bearing slider. <i>Tribology International</i> , 2009, 42, 1125-1131.	5.9	8
31	Energy Analysis on Flying Stability of Sub-5-nm Air Bearing Slider. <i>IEEE Transactions on Magnetism</i> , 2009, 45, 4998-5001.	2.1	5
32	Contact force studies of a burnishing slider. <i>Tribology International</i> , 2008, 41, 60-66.	5.9	15
33	Dynamics of Fly-Contact Head Disk Interface. <i>IEEE Transactions on Magnetism</i> , 2008, 44, 3683-3686.	2.1	5
34	Probability Model for the intermolecular force with surface roughness considered. <i>Tribology International</i> , 2007, 40, 1047-1055.	5.9	28
35	Mechanism studies of the multiple flying states of the air bearing slider. <i>Tribology International</i> , 2006, 39, 649-656.	5.9	11
36	Dynamics of air bearing slider with nano-meter level proximity contact. <i>Mechanism and Machine Theory</i> , 2005, 40, 495-509.	4.5	0

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37	Intermolecular force, surface roughness, and stability of head-disk interface. Journal of Applied Physics, 2005, 97, 10P305.	2.5	11
38	A New Implicit Algorithm for the Simulations of Slider Dynamics Based on the Unstructured Triangular Mesh. , 2004, , .		1
39	Effects of intermolecular forces on deep sub-10 nm spaced sliders. IEEE Transactions on Magnetism, 2002, 38, 2141-2143.	2.1	35
40	Further studies of unload process with a 9D model. IEEE Transactions on Magnetism, 2001, 37, 1855-1858.	2.1	19
41	Discussion: "Analysis of Stresses Induced by Dynamic Load Head-Disk Contacts"(Fu, Ra-Chang and Bogy,) Tj ETOq1 1 0.784314	1.9	4
42	An experimental study of dimple separations and head-disk impacts of negative pressure slider in unload process. IEEE Transactions on Magnetism, 2001, 37, 1859-1862.	2.1	8
43	ABS design for anti-surface borne particles. IEEE Transactions on Magnetism, 2001, 37, 1802-1805.	2.1	5
44	Investigations of disk surface roughness on the dynamic performance of proximity recording slider. Journal of Magnetism and Magnetic Materials, 2000, 209, 163-165.	2.3	7
45	Design and analysis of MEMS-based slider suspensions for a high-performance magnetic recording system. Journal of Micromechanics and Microengineering, 2000, 10, 64-71.	2.6	11
46	A study of interface dynamics for stiction-free slider and super-smooth disk. Journal of Applied Physics, 2000, 87, 6149-6151.	2.5	11
47	A nonlinear dynamics theory for modeling slider air bearing in hard disk drives. Journal of Applied Physics, 2000, 87, 6173-6175.	2.5	22
48	A dual stage slider "suspension design for nanospaced recording. Journal of Applied Physics, 1999, 85, 5621-5623.	2.5	5
49	Disk roughness and its influence on the performance of proximity recording sliders. IEEE Transactions on Magnetism, 1999, 35, 2460-2462.	2.1	6
50	A theoretical model for acoustic emission sensing process in contact/near-contact interfaces of magnetic recording system. Journal of Applied Physics, 1999, 85, 5609-5611.	2.5	8
51	A micro-machined dual slider-suspension for near-contact and contact recording. IEEE Transactions on Magnetism, 1999, 35, 2472-2474.	2.1	7
52	An experimental study of slider vibration in nanometer spaced head-disk interface. IEEE Transactions on Magnetism, 1999, 35, 2463-2465.	2.1	16
53	Engineering Performance Evaluation of Tri-Pad Slider for Proximity Recording. , 1999, , 143-156.		1
54	A novel implicit algorithm for the simulation of time domain head/disk dynamics in disk files. IEEE Transactions on Magnetism, 1997, 33, 3127-3129.	2.1	13