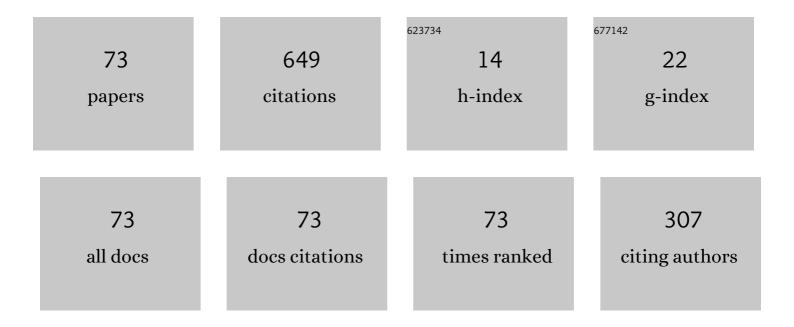
List of Publications by Year in descending order

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SHENCKAL VIL

#	Article	IF	CITATIONS
1	Investigation of slider out-of-plane and in-plane vibrations during the track-seeking process. Microsystem Technologies, 2016, 22, 1189-1197.	2.0	2
2	Dynamics of head-disk interface in hard disk drives during operational shock. Microsystem Technologies, 2016, 22, 1389-1395.	2.0	4
3	Direct Monte Carlo simulation of nanoscale mixed gas bearings. Advances in Mechanical Engineering, 2015, 7, 168781401558952.	1.6	5
4	Operational shock response of ultrathin hard disk drives. Microsystem Technologies, 2015, 21, 2573-2579.	2.0	3
5	Numerical investigation of thermal effects on a HAMR head-disk interface. Microsystem Technologies, 2015, 21, 2641-2647.	2.0	5
6	Effect of the Thickness of a Diamond-Like Carbon Layer on the Local Temperature Increase in a Multilayered Structure Induced by Laser Heating. Numerical Heat Transfer; Part A: Applications, 2015, 67, 791-807.	2.1	6
7	Evaluation of thermal performance of graphene overcoat on multi-layered structure subject to laser heating. International Communications in Heat and Mass Transfer, 2015, 68, 27-31.	5.6	4
8	Electrostatic Force Manipulation Methodology: Principles, Mechanisms, and Setup for Head–Disk Interactions Monitoring. IEEE Transactions on Magnetics, 2015, 51, 1-8.	2.1	0
9	Operational Shock Response of Ultrathin Hard Disk Drives. , 2014, , .		0
10	Investigations of Light Contact and Lube-Surfing State With Electrical Current. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
11	Adsorbed Water Film and Heat Conduction from Disk to Slider in Heat-Assisted Magnetic Recording. Tribology Letters, 2014, 56, 93-99.	2.6	3
12	Heater AC Voltage Induced Flying Height Modulations. Journal of Tribology, 2014, 136, .	1.9	2
13	Numerical Investigation of Thermal Effects on a HAMR Head-Disk Interface. , 2014, , .		0
14	Performance analysis of an integrated piezoelectric ZnO sensor for detection of head–disk contact. Microsystem Technologies, 2013, 19, 1449-1455.	2.0	4
15	Modeling laser heated thin film media for heat assisted magnetic recording. Microsystem Technologies, 2013, 19, 1457-1463.	2.0	8
16	Numerical study of thermal-induced lubricant depletion induced on an anisotropic multilayer disk in a heat assisted magnetic recording system. International Journal of Heat and Mass Transfer, 2013, 60, 322-333.	4.8	4
17	A ZnO microcantilever for high-frequency nanopositioning: Modeling, fabrication and characterization. Sensors and Actuators A: Physical, 2013, 194, 75-83.	4.1	9
18	Thermal Effect of a Thin Overcoating Layer Subject to Laser Heating. IEEE Transactions on Magnetics, 2013, 49, 2782-2785.	2.1	2

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19	Laser-induced local heating and lubricant depletion in heat assisted magnetic recording systems. International Journal of Heat and Mass Transfer, 2013, 59, 36-45.	4.8	20
20	A ZnO thin-film driven microcantilever for nanoscale actuation and sensing. International Journal of Smart and Nano Materials, 2013, 4, 128-141.	4.2	20
21	Flying Height Drop Due to Air Entrapment in Lubricant. Tribology Letters, 2013, 52, 137-145.	2.6	0
22	A modified slip model for gas lubrication at nanoscale head-disk interface. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2013, 227, 1367-1375.	1.8	4
23	Numerical Simulation on Lubricant Recovery After Depletion. , 2013, , .		0
24	Slider Posture Effects on Air Bearing in a Heat-Assisted Magnetic Recording System. Advances in Tribology, 2012, 2012, 1-6.	2.1	2
25	Effect of Interfacial Roughness on Slider-Disk Interactions at Near-Contact Regime. IEEE Transactions on Magnetics, 2012, 48, 4459-4462.	2.1	4
26	A Fast Implicit Algorithm for Time-Dependent Dynamic Simulations of Air Bearing Sliders. Journal of Tribology, 2012, 134, .	1.9	7
27	Frequency Analyses of Air Bearing Slider in Near Contact and Contact States. Tribology Letters, 2012, 48, 345-353.	2.6	6
28	Lubricant evolution and depletion under laser heating: a molecular dynamics study. Soft Matter, 2012, 8, 5649.	2.7	42
29	Numerical study on thermal-induced lubricant depletion in laser heat-assisted magnetic recording systems. International Journal of Heat and Mass Transfer, 2012, 55, 886-896.	4.8	25
30	A Model for Laser Induced Lubricant Depletion in Heat-Assisted Magnetic Recording. Tribology Letters, 2012, 45, 411-416.	2.6	13
31	Nonlinear Dynamics of Thermal Flying Height Control Sliders at Touch-Down. IEEE Transactions on Magnetics, 2011, 47, 1798-1804.	2.1	8
32	Air Bearing Features on Discrete Track Media. IEEE Transactions on Magnetics, 2011, 47, 1813-1816.	2.1	0
33	Dynamic Studies on Lube-Surfing Recording. IEEE Transactions on Magnetics, 2011, 47, 3578-3581.	2.1	1
34	Direct Monte Carlo Simulations of Air Bearing Characteristics on Patterned Media. IEEE Transactions on Magnetics, 2011, 47, 2660-2663.	2.1	9
35	Molecular Dynamics Simulation of Lubricant Redistribution and Transfer at Near-Contact Head-Disk Interface. Tribology Letters, 2011, 43, 89-99.	2.6	28
36	Thermal protrusion induced air bearing frequency variations. Microsystem Technologies, 2011, 17, 891-896.	2.0	9

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37	Direct Monte Carlo simulation of air bearing effects in heat-assisted magnetic recording. Microsystem Technologies, 2011, 17, 903-909.	2.0	13
38	Evaporation of Polydisperse Perfluoropolyether Lubricants in Heat-Assisted Magnetic Recording. Applied Physics Express, 2011, 4, 095201.	2.4	13
39	Molecular Study of Dynamic Behavior between Head and Ultrathin Lubricant Film. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2010, 4, 56-60.	0.7	3
40	Effects of environmental temperature and humidity on thermal flying height adjustment. Microsystem Technologies, 2010, 16, 49-55.	2.0	3
41	Contact recording review. Microsystem Technologies, 2010, 16, 493-503.	2.0	13
42	Slider Design Optimization for Lube-Surfing Head-Disk Interface Scheme. IEEE Transactions on Magnetics, 2010, 46, 1922-1924.	2.1	10
43	Numerical Simulations of Accommodation Coefficient Effects at the Head-Disk Interface. Japanese Journal of Applied Physics, 2010, 49, 095206.	1.5	6
44	Influences of Surface Topography on the Flying Performances of a Sub-3 nm Air Bearing Slider. Japanese Journal of Applied Physics, 2010, 49, 125202.	1.5	4
45	Effects of Gas Physical Properties on Flying Performance of Air Bearing Slider. IEEE Transactions on Magnetics, 2010, 46, 1389-1392.	2.1	6
46	Dynamic Stability Analysis for Surfing Head-Disk Interface. IEEE Transactions on Magnetics, 2009, 45, 4979-4983.	2.1	23
47	Mechanical performance study of pattern media based head-disk systems. , 2009, , .		0
48	Nanoscale roughness contact in a slider–disk interface. Nanotechnology, 2009, 20, 285710.	2.6	21
49	Numerical Studies of Heat Transfer in Rarefied Gases at Head-Disk Interface. Japanese Journal of Applied Physics, 2009, 48, 105005.	1.5	6
50	Inert Gas Filled Head–Disk Interface for Future Extremely High Density Magnetic Recording. Tribology Letters, 2009, 33, 179-186.	2.6	14
51	Effect of environment humidity and temperature on stationary and transient flying responses of air bearing slider. Tribology International, 2009, 42, 1125-1131.	5.9	8
52	Effects of temperature dependent air properties on the performances of a thermal actuated slider. Tribology International, 2009, 42, 902-910.	5.9	17
53	Lube-Surfing Recording and Its Feasibility Exploration. IEEE Transactions on Magnetics, 2009, 45, 899-904.	2.1	60
54	Energy Analysis on Flying Stability of Sub-5-nm Air Bearing Slider. IEEE Transactions on Magnetics, 2009. 45. 4998-5001.	2.1	5

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55	Mechanical Performance Study of Pattern Media-Based Head-Disk Systems. IEEE Transactions on Magnetics, 2009, 45, 5002-5005.	2.1	4
56	Light Delivery System for Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2009, 45, 5016-5021.	2.1	12
57	Effects of Surface Roughness on the Fly-Ability of a Thermal Protrusion Air Bearing Slider. , 2009, , .		0
58	Performance Optimization of Thermal Nano-Actuator for Fly Height Control in Disk Drives. , 2009, , .		0
59	Twisted transition of one bit written by trapezoidal single pole. Journal of Magnetism and Magnetic Materials, 2008, 320, 2948-2951.	2.3	Ο
60	Towards fly- and lubricant-contact recording. Journal of Magnetism and Magnetic Materials, 2008, 320, 3183-3188.	2.3	27
61	Dynamics of Fly-Contact Head Disk Interface. IEEE Transactions on Magnetics, 2008, 44, 3683-3686.	2.1	5
62	Air-Bearing Design Towards Highly Stable Head–Disk Interface at Ultralow Flying Height. IEEE Transactions on Magnetics, 2007, 43, 715-720.	2.1	46
63	Dynamics of Read/Write Head Positioning in Both Flying-Height and Off-Track Directions. IEEE Transactions on Magnetics, 2007, 43, 3796-3801.	2.1	9
64	Probability Model for the intermolecular force with surface roughness considered. Tribology International, 2007, 40, 1047-1055.	5.9	28
65	Flying Stability Study of a Thermal Actuated Slider. , 2006, , .		1
66	Air-Bearing Design Towards Super Stable Head-Disk Interface. , 2006, , .		0
67	Analysis and optimization of dynamic response of air bearing sliders to disk waviness. Tribology International, 2005, 38, 542-553.	5.9	4
68	Flying height adjustment by slider's air bearing surface profile control. Journal of Applied Physics, 2005, 97, 10P309.	2.5	9
69	Femto slider: fabrication and evaluation. IEEE Transactions on Magnetics, 2003, 39, 909-914.	2.1	14
70	Dynamic characteristics of a flex suspension assembly. , 0, , .		1
71	Femto slider: fabrication and evaluation [magnetic disk storage]. , 0, , .		1

72 Two dimensional position stability of head-slider and its in-situ characterization. , 0, , .

#	Article	IF	CITATIONS
73	Optimal suspension design for femto sliders. , 0, , .		Ο