

Takeshi T Yamaguchi

List of Publications by Year in descending order

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81
papers

838
citations

471509

17
h-index

642732

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83
all docs

83
docs citations

83
times ranked

446
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of rubber block height and orientation on the coefficients of friction against smooth steel surface lubricated with glycerol solution. <i>Tribology International</i> , 2017, 110, 96-102.	5.9	42
2	Development of new footwear sole surface pattern for prevention of slip-related falls. <i>Safety Science</i> , 2012, 50, 986-994.	4.9	35
3	Kinematics of center of mass and center of pressure predict friction requirement at shoe-floor interface during walking. <i>Gait and Posture</i> , 2013, 38, 209-214.	1.4	35
4	Effect of turning angle on falls caused by induced slips during turning. <i>Journal of Biomechanics</i> , 2012, 45, 2624-2629.	2.1	30
5	Tribological behavior of polyamide 66/rice bran ceramics and polyamide 66/glass bead composites. <i>Wear</i> , 2014, 317, 1-7.	3.1	26
6	Dry sliding friction and Wear behavior of thermoplastic polyurethane against abrasive paper. <i>Biotribology</i> , 2020, 23, 100130.	1.9	26
7	Sliding friction characteristics of styrene butadiene rubbers with varied surface roughness under water lubrication. <i>Tribology International</i> , 2019, 133, 230-235.	5.9	24
8	Development of a High Slip-resistant Footwear Outsole Using a Hybrid Rubber Surface Pattern. <i>Industrial Health</i> , 2014, 52, 414-423.	1.0	23
9	Sliding velocity dependency of the friction coefficient of Si-containing diamond-like carbon film under oil lubricated condition. <i>Tribology International</i> , 2011, 44, 1296-1303.	5.9	22
10	Tribological behavior of RH ceramics made from rice husk sliding against stainless steel, alumina, silicon carbide, and silicon nitride. <i>Tribology International</i> , 2014, 73, 187-194.	5.9	22
11	Friction control of a resin foam/rubber laminated block material. <i>Tribology International</i> , 2019, 136, 548-555.	5.9	22
12	Preparation and tribological properties of SiC/rice bran carbon composite ceramics. <i>Journal of Materials Research</i> , 2005, 20, 3439-3448.	2.6	21
13	Effect of Step Length and Walking Speed on Traction Coefficient and Slip between Shoe Sole and Walkway. <i>Tribology Online</i> , 2008, 3, 59-64.	0.9	21
14	'Walking-Mode Maps' Based on Slip/Non-Slip Criteria. <i>Industrial Health</i> , 2008, 46, 23-31.	1.0	21
15	Dry sliding friction of ethylene vinyl acetate blocks: Effect of the porosity. <i>Tribology International</i> , 2017, 116, 264-271.	5.9	20
16	Experimental study on microscopic wear mechanism of copper/carbon/rice bran ceramics composites. <i>Wear</i> , 2012, 294-295, 270-276.	3.1	19
17	Efficacy of a rubber outsole with a hybrid surface pattern for preventing slips on icy surfaces. <i>Applied Ergonomics</i> , 2015, 51, 9-17.	3.1	19
18	Contribution of center of mass-center of pressure angle tangent to the required coefficient of friction in the sagittal plane during straight walking. <i>Biotribology</i> , 2016, 5, 16-22.	1.9	17

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19	Effect of groove width and depth and urethane coating on slip resistance of vinyl flooring sheet in glycerol solution. <i>Tribology International</i> , 2019, 135, 89-95.	5.9	17
20	Friction and Wear Properties of Copper/Carbon/RB Ceramics Composite Materials under Dry Condition. <i>Tribology Online</i> , 2008, 3, 222-227.	0.9	16
21	Effect of Porosity and Normal Load on Dry Sliding Friction of Polymer Foam Blocks. <i>Tribology Letters</i> , 2018, 66, 1.	2.6	16
22	Influence of unforced dewetting and enforced wetting on real contact formation and friction behavior between rubber hemisphere and glass plate during contacting and sliding processes. <i>Tribology International</i> , 2020, 141, 105921.	5.9	15
23	Friction and Wear of Polyamide 66 Composites Filled with RB Ceramics Particles under Dry Condition. <i>Tribology Online</i> , 2010, 5, 87-91.	0.9	15
24	Polymer Composites Filled with RB Ceramics Particles as Low Friction and High Wear Resistant Filler. <i>Tribology Online</i> , 2010, 5, 19-26.	0.9	14
25	Relationship between slip angle in ramp test and coefficient of friction values at shoe-floor interface measured with cart-type friction measurement device. <i>Journal of Biomechanical Science and Engineering</i> , 2018, 13, 17-00389-17-00389.	0.3	14
26	Development of high slip-resistant footwear outsole using rubber surface filled with activated carbon/sodium chloride. <i>Scientific Reports</i> , 2022, 12, 267.	3.3	14
27	Friction and wear properties of rice husk ceramics under dry condition. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 85-88.	1.5	13
28	Effect of friction at chip-tool interface on chip geometry and chip snarling in tapping process. <i>International Journal of Machine Tools and Manufacture</i> , 2016, 107, 60-65.	13.4	13
29	Decrease in required coefficient of friction due to smaller lean angle during turning in older adults. <i>Journal of Biomechanics</i> , 2018, 74, 163-170.	2.1	13
30	Friction behavior of silicone rubber hemisphere under non-uniform wetting states: With water droplets in air or air bubbles in water. <i>Tribology International</i> , 2021, 155, 106769.	5.9	12
31	Friction and Wear Properties of Copper/Carbon/RB Ceramics Composite under Electrical Current. <i>Tribology Online</i> , 2009, 4, 131-134.	0.9	11
32	Required coefficient of friction in the anteroposterior and mediolateral direction during turning at different walking speeds. <i>PLoS ONE</i> , 2017, 12, e0179817.	2.5	11
33	The Effect of Carbonizing Temperature on Friction and Wear Properties of Hard Porous Carbon Materials Made from Rice Husk. <i>Tribology Online</i> , 2009, 4, 11-16.	0.9	10
34	New technique of three directional ground reaction force distributions. <i>Footwear Science</i> , 2010, 2, 57-64.	2.1	10
35	Effects of age-related changes in step length and step width on the required coefficient of friction during straight walking. <i>Gait and Posture</i> , 2019, 69, 195-201.	1.4	10
36	Effects of Rosin Powder Application on the Frictional Behavior Between a Finger Pad and Baseball. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 30.	1.8	10

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37	Friction and Wear Properties of Copper/Carbon/Rice Bran Ceramics Composite under Water-Lubricated Condition. Tribology Online, 2011, 6, 180-184.	0.9	9
38	Friction and Wear Properties of PEEK Resin Filled with RB Ceramics Particles under Water Lubricated Condition. Tribology Online, 2016, 11, 653-660.	0.9	9
39	Optimizing the frictional behavior of partially wetting soft contacts as measured with hydrogel covered silicones. Tribology International, 2021, 153, 106586.	5.9	9
40	Friction and Wear Properties of Rice Husk Ceramics under Dry and Water Lubricated Conditions. Tribology Online, 2009, 4, 78-81.	0.9	8
41	Experimental Analysis of the Distribution of Traction Coefficient in the Shoe-Ground Contact Area during Running. Tribology Online, 2012, 7, 267-273.	0.9	8
42	The Future of Footwear Friction. Lecture Notes in Networks and Systems, 2022, , 841-855.	0.7	8
43	Friction behavior between an artificial skin block and a glass plate under unlubricated and partly/completely water-lubricated conditions. Tribology International, 2021, 163, 107179.	5.9	8
44	Friction and Wear Behavior of Polyamide 66 Composites Filled with Rice Bran Ceramics under a Wide Range of μ and P_v Values. Tribology Online, 2015, 10, 213-219.	0.9	7
45	Misalignment of the Desired and Measured Center of Pressure Describes Falls Caused by Slip during Turning. PLoS ONE, 2016, 11, e0155418.	2.5	7
46	Experimental Analysis of Slip Potential in Normal-Style Walking and Nanba-Style Walking. Journal of Biomechanical Science and Engineering, 2009, 4, 468-479.	0.3	6
47	Development of a New Tapping Tool Covered with Nickel/Abrasive Particles Composite Film for Preventing Chip Snarling and Tool Service Life Extension. Tribology Online, 2016, 11, 81-87.	0.9	6
48	Friction and wear behavior of stainless steel fabricated by powder bed fusion process under oil lubrication. Tribology International, 2016, 104, 183-190.	5.9	6
49	Tribological behavior of polyacetal composite filled with rice bran ceramics particles under water lubrication. Journal of Composite Materials, 2018, 52, 2075-2084.	2.4	6
50	Effect of the Porosity Distribution on Dry Sliding Friction and Wear of Cross-Linked Ethylene Vinyl Acetate Foams With a Skin Layer. Biotribology, 2020, 22, 100128.	1.9	6
51	Relationship between sliding-induced wear and severity of sliding contact for polyamide 66 filled with hard filler. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 783-790.	1.8	5
52	Effects of Porosity and SEBS Fraction on Dry Sliding Friction of EVA Foams for Sports Shoe Sole Applications. Tribology Transactions, 2020, 63, 1067-1075.	2.0	5
53	Effect of Temperature on the Dry Sliding Friction and Wear of Rice Bran Ceramics against Different Counterpart Materials. Tribology Transactions, 2018, 61, 279-286.	2.0	4
54	Distribution of the local required coefficient of friction in the shoe-floor contact area during straight walking: A pilot study. Biotribology, 2019, 19, 100101.	1.9	4

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55	Effect of foot–floor friction on the external moment about the body center of mass during shuffling gait: a pilot study. <i>Scientific Reports</i> , 2021, 11, 12133.	3.3	4
56	Impact of rubber block end-face corner radius on the friction coefficient between rubber blocks and a glass plate under dry and lubrication conditions. <i>Tribology International</i> , 2022, 174, 107705.	5.9	4
57	Tribological behavior of polyacetal composite lubricated in sodium hypochlorite solution. <i>Wear</i> , 2019, 428-429, 272-278.	3.1	3
58	Improvement in Mixed Lubrication Characteristics of Electromagnetic Clutch Coated with DLC-Si Film by Controlling Surface Roughness and Providing Micro-Groove. <i>Tribology Online</i> , 2016, 11, 13-23.	0.9	3
59	Evaluation of DLC-Si Film Damage due to Friction under ATF Lubricated Condition. <i>Tribology Online</i> , 2008, 3, 1-5.	0.9	3
60	Experimental Analyses of Load Carrying Effects on the Peak Traction Coefficient between Shoe Sole and Floor during Walking. <i>Tribology Online</i> , 2008, 3, 342-347.	0.9	2
61	Study on Estimation of Contact Pressure Distribution at the Rubber Sphere - Glass Plate Interface Based on Luminance Distribution Analysis. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013, 79, 4464-4473.	0.2	2
62	Microstructural, Mechanical, and Tribological Properties of Rice Husk–Based Carbon: Effect of Carbonizing Temperature. <i>Tribology Transactions</i> , 2019, 62, 218-229.	2.0	2
63	Comparison of lower limb joint moment and power during turning gait between young and old adults using hierarchical Bayesian inference. <i>Journal of Biomechanics</i> , 2020, 103, 109702.	2.1	2
64	Friction and Wear Properties of Sintered Cu Alloy Impregnated with Thermo-Reversible Gel-Lubricant. <i>Tribology Online</i> , 2010, 5, 118-122.	0.9	2
65	Footwear width and balance-recovery reactions: A new approach to improving lateral stability in older adults. <i>Gerontechnology</i> , 2015, 13, 359-367.	0.1	2
66	Magnesium carbonate and rosin powders stabilize sliding motion between rubber-gloved human hand and grasped cylindrical bar. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2015, 9, JAMDSM0026-JAMDSM0026.	0.7	1
67	Effect of coefficient of friction at the sliding zone of chip-tool interface on chip curl diameter and secondary shear zone thickness during tapping process. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2017, 11, JAMDSM0007-JAMDSM0007.	0.7	1
68	Tribological Behavior of Rice Bran Ceramics in a Vacuum Environment. <i>Tribology Transactions</i> , 2018, 61, 911-919.	2.0	1
69	Effects of Particulate and Fibrous Carbon Filler Combinations on the Tribological Behavior of a Polyacetal Composite under Water Lubrication. <i>Tribology Online</i> , 2019, 14, 321-326.	0.9	1
70	Development of Carbon Contact Strip using RB Ceramics. <i>IEEJ Transactions on Industry Applications</i> , 2015, 135, 426-431.	0.2	1
71	Preliminary Study of Wide Base-of-Support Footwear in Preventing Falls Caused by Lateral Slip during Walking. <i>Tribology Online</i> , 2012, 7, 159-164.	0.9	1
72	Development of a Low Friction Runner and Analysis of the New Start Technique for Bobsleigh. <i>Hyomen Kagaku</i> , 2005, 26, 762-765.	0.0	1

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73	Wear behavior of thermoplastic urethane for the outer soles of spike shoes. <i>Wear</i> , 2021, , 204105.	3.1	1
74	Effect of Combining Hydrophobic and Hydrophilic Treatments on Slip Resistance for Wet Flat Glass Flooring. <i>Lecture Notes in Networks and Systems</i> , 2021, , 682-688.	0.7	0
75	Effects of Foot-Floor Friction on Trip-Induced Falls During Shuffling Gait: A Simulation Study. <i>Lecture Notes in Networks and Systems</i> , 2022, , 856-860.	0.7	0
76	Kinematic and Tribological Analysis of Slip Phenomena during Walking. , 2008, , 644-650.		0
77	Textural Characteristics and Friction Properties of Facial Tissues. <i>Tribology Online</i> , 2017, 12, 238-246.	0.9	0
78	High-speed-braking performance of rubber brake filled with RB ceramics particles under rain conditions. <i>Transactions of the JSME (in Japanese)</i> , 2020, 86, 19-00397-19-00397.	0.2	0
79	A Study on the Effect of Friction between Fingertip and Ball on Baseball Pitching Performance. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2020, 2020, S11522.	0.0	0
80	Tribology for Preventing Slips. <i>Journal of the Japan Society for Precision Engineering</i> , 2020, 86, 605-608.	0.1	0
81	Measurement of Friction Coefficient Between Shoe Sole and Floor Surface during Walking Using Sensor Shoe System. <i>The Proceedings of the Symposium on Sports and Human Dynamics</i> , 2021, 2021, C-10-3.	0.0	0