# Takashi Murakami

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 74 papers | 1,622 citations | 279487 23 h-index | 315357 38 g-index |
| 75 all docs | 75 docs citations | 75 times ranked | 1005 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Microstructure, mechanical properties, oxidation behaviors, and cutting performance of TiC0Â·5N0.5-X (X: W, Mo) cermet specimens prepared by spark plasma sintering. Ceramics International, 2021, 47, 1986-1999. | 2.3 | 8 |
| 2 | Tribological Behaviors of B<sub>6</sub>O/Si<sub>3</sub>N<sub>4</sub> and B<sub>6</sub>O/Al<sub>2</sub>O<sub>3</sub> Sliding Pairs in Water. Materials Transactions, 2020, 61, 475-481. | 0.4 | 1 |
| 3 | Tribological Properties of Aluminum and Silicon Borides at High Temperatures. Materials Science Forum, 2018, 941, 1984-1989. | 0.3 | 1 |
| 4 | High-temperature tribological properties of Mo-Si-B intermetallic alloy/Si3N4 tribopairs. Intermetallics, 2018, 100, 151-162. | 1.8 | 13 |
| 5 | Friction and Wear Properties of Î±AlB<sub>12</sub>-NiAl Cermet Prepared by Spark Plasma Sintering. Materials Science Forum, 2016, 879, 1338-1343. | 0.3 | 0 |
| 6 | Friction and wear properties of spark-plasma-sintered Î±-AlB12 and SiB6 powder compacts in water. Tribology International, 2015, 92, 446-453. | 3.0 | 8 |
| 7 | Friction and wear properties of Î±-AlB12- and SiB6-based ceramics in water. Tribology International, 2014, 74, 38-45. | 3.0 | 13 |
| 8 | Friction and wear properties of Î±FeSi2â€“Si alloy, ReSi1.8 and MoSi2 in ethyl alcohol. Tribology International, 2014, 69, 61-69. | 3.0 | 1 |
| 9 | High-temperature friction and wear properties of various sliding materials against aluminum alloy 5052. Tribology International, 2013, 60, 45-52. | 3.0 | 22 |
| 10 | Microstructure, friction and wear properties of Î±FeSi2â€“graphite composite specimens. Tribology International, 2013, 67, 98-103. | 3.0 | 3 |
| 11 | Microstructure and tribological properties of gray cast iron specimens coated by aluminizing, boronizing, chromizing and siliconizing. Materials Research Society Symposia Proceedings, 2012, 1516, 115-120. | 0.1 | 4 |
| 12 | Friction and wear properties of Fe7Mo6- and Î±FeSi2-based alloys in rapeseed oil. Tribology International, 2012, 56, 1-8. | 3.0 | 5 |
| 13 | Friction and wear properties of Feâ€“Si intermetallic compounds in ethyl alcohol. Intermetallics, 2012, 20, 68-75. | 1.8 | 28 |
| 14 | Tribological properties of grey cast iron lubricated using organic compounds containing Mo and ZnDTP additives. Lubrication Science, 2012, 24, 153-164. | 0.9 | 8 |
| 15 | Microstructure and tribological properties of Fe-Mo alloy-coated steel specimens prepared by low-pressure plasma spraying. Intermetallics, 2011, 19, 1873-1877. | 1.8 | 12 |
| 16 | Structural and surface property study of sputter deposited transparent conductive Nb-doped titanium oxide films. Thin Solid Films, 2011, 519, 1934-1942. | 0.8 | 23 |
| 17 | Room-temperature template-free synthesis of dumbbell-like SrSO4 with hierarchical architecture. Journal of Crystal Growth, 2010, 312, 1886-1890. | 0.7 | 11 |
| 18 | Tribological properties of Fe7Mo6-based-alloy lubricated with poly-alpha-olefin containing PN additive. Tribology International, 2010, 43, 312-319. | 3.0 | 12 |

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| 19 | Friction and wear properties of Fe7Mo6-based alloy in ethyl alcohol. Tribology International, 2010, 43, 2183-2189. | 3.0 | 5 |
| 20 | Friction and wear properties of zirconium and niobium in a hydrogen environment. Wear, 2010, 268, 721-729. | 1.5 | 14 |
| 21 | Remarkable friction stabilization of AISI 52100 steel by plasma nitriding under lubrication of alkyl naphthalene. Wear, 2010, 268, 917-923. | 1.5 | 19 |
| 22 | Friction and Wear Properties of Zr and TiC-Based Cermet Specimens in a Hydrogen Gas Atmosphere. Materials Science Forum, 2010, 638-642, 3412-3417. | 0.3 | 2 |
| 23 | Effects of surface texture size on the tribological properties of slideways. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2010, 224, 885-890. | 1.0 | 26 |
| 24 | HIGH TEMPERATURE TRIBOLOGICAL PROPERTIES OF SPARK-PLASMA-SINTERED Al2O3-SrSO4 SELF-LUBRICATING NANOCOMPOSITES INCORPORATED WITH AND WITHOUT Ag ADDITION. International Journal of Modern Physics B, 2009, 23, 1425-1431. | 1.0 | 6 |
| 25 | Tribological Properties of Spark-Plasma-Sintered Al2O3-SrSO4 Self-Lubricating Nanocomposites at Elevated Temperatures. , 2009, , 426-429. | | 1 |
| 26 | Effect of contact configuration on the durability and friction coefficient of pressureâ€sprayed MoS<sub>2</sub> coatings under fretting conditions. Lubrication Science, 2009, 21, 193-209. | 0.9 | 4 |
| 27 | Microstructure and tribological properties of ZrO2(Y2O3) matrix composites doped with different solid lubricants from room temperature to 800 Â°C. Wear, 2009, 267, 1353-1360. | 1.5 | 91 |
| 28 | Mechanical and unlubricated tribological properties of titanium-containing diamond-like carbon coatings. Wear, 2009, 266, 96-102. | 1.5 | 35 |
| 29 | Effects of Residual Gas on Tribochemical Reactions of SUJ2 Steel in Vacuum and in Argon Gas Atmosphere. Tribology Online, 2009, 4, 103-108. | 0.2 | 2 |
| 30 | Friction and Wear Properties of Fe7Mo6-Based Alloy under the Lubrication of Ethyl-Alcohol. , 2009, , 376-377. | | 0 |
| 31 | Tribological properties of Fe7Mo6-based alloy under two ionic liquid lubrications. Tribology International, 2008, 41, 1083-1089. | 3.0 | 17 |
| 32 | Influence of Microstructure on the Wear Behavior of SiC-Reinforced Titanium-Matrix Composites Lubricated by Water and by Ethanol. Journal of the American Ceramic Society, 2008, 91, 508-513. | 1.9 | 12 |
| 33 | Wear Behavior of Self-mated Ti-Si-C Composites and Ti-Si-N Composites Slid Without Lubricant. Tribology Online, 2008, 3, 185-189. | 0.2 | 3 |
| 34 | High-Temperature Tribological Properties of Barite-Type-Sulfate-Coated Substrates with Different Isoelectric Points. Materials Science Forum, 2007, 539-543, 1200-1205. | 0.3 | 0 |
| 35 | Evaluation of Tribological Properties of a Cathodic Arc Ion-Plated CrSiN Coating under Both Unlubricated and Boundary-Lubricated Conditions. Materials Science Forum, 2007, 546-549, 1747-1752. | 0.3 | 0 |
| 36 | Tribological Properties of MoS<sub>2</sub>-Coated Gray Cast Irons with Some Different Matrix Phases under the Boundary Lubricating Conditions. Key Engineering Materials, 2007, 353-358, 788-791. | 0.4 | 0 |

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| 37 | Fabrication of Functionally Porous Structures by the Sheet Lamination Method. Materials Science Forum, 2007, 561-565, 1711-1714. | 0.3 | 2 |
| 38 | Spark Plasma Sintered ZrO<sub>2</sub>(Y<sub>2</sub>O<sub>3</sub>)-Al<sub>2</sub>O<sub>3</sub&g Self-Lubricating Nanocomposites for High Temperature Tribological Applications. Key Engineering Materials, 2007, 336-338, 1429-1432. | 0.4 | 2 |
| 39 | Tribological Behavior of Phosphor Bronze against SAE52100 Steel under Different Lubricants. Key Engineering Materials, 2007, 353-358, 852-855. | 0.4 | 1 |
| 40 | The Spark Plasma Sintering Method Using Laminated Titanium Powder Sheet for Fabricating Porous Biocompatible Implants. High Temperature Materials and Processes, 2007, 26, . | 0.6 | 1 |
| 41 | Friction and wear properties of Feâ€“Mo intermetallic compounds under oil lubrication. Intermetallics, 2007, 15, 1573-1581. | 1.8 | 35 |
| 42 | Ionic liquid lubrication of electrodeposited nickelâ€“Si3N4 composite coatings. Wear, 2007, 262, 765-771. | 1.5 | 80 |
| 43 | High-temperature tribological properties of spark-plasma-sintered Al2O3 composites containing barite-type structure sulfates. Tribology International, 2007, 40, 246-253. | 3.0 | 58 |
| 44 | High-temperature tribological properties of a cathodic arc ion-plated (V,Ti)N coating. Wear, 2007, 263, 1347-1353. | 1.5 | 34 |
| 45 | Applying Micro-Texture to Cast Iron Surfaces to Reduce the Friction Coefficient Under Lubricated Conditions. Tribology Letters, 2007, 28, 131-137. | 1.2 | 195 |
| 46 | Tribological Behavior of SiC-Reinforced Ti3SiC2-Based Composites under Dry Condition and under Lubricated Condition with Water and Ethanol. Journal of the American Ceramic Society, 2006, 89, 060711111453003-???. | 1.9 | 11 |
| 47 | High-temperature friction properties of BaSO4 and SrSO4 powder films formed on Al2O3 and stainless steel substrates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 432, 52-58. | 2.6 | 29 |
| 48 | Damping and tribological properties of Feâ€“Siâ€“C cast iron prepared using various heat treatments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 432, 113-119. | 2.6 | 34 |
| 49 | High-temperature tribological properties of strontium sulfate films formed on zirconia-alumina, alumina and silicon nitride substrates. Tribology International, 2006, 39, 1576-1583. | 3.0 | 21 |
| 50 | High-Temperature Friction and Wear Properties of X-BaSO<SUB>4</SUB> (X:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (Al<SUB>2< Transactions, 2005, 46, 182-185. | 0.4 | 15 |
| 51 | è¶…é«˜æ¸©æœ—ã•ã—ã¦ã®Mo-Si-Bä¸‰å…ƒç³»å•é‡‘ã®æ©Ÿæ¢°çš„æ€§è³ªã‚ˆã‚‚æ©Ÿèƒ½æ€§. Materia Japan, 2005, 44, 131-137. | 0.5 | 1 |
| 52 | Tribological properties of spark-plasma-sintered ZrO2(Y2O3)â€“CaF2â€“Ag composites at elevated temperatures. Wear, 2005, 258, 1444-1454. | 1.5 | 77 |
| 53 | High-temperature tribological properties of Al2O3, Niâ€“20mass% Cr and NiAl spark-plasma-sintered composites containing BaF2â€“CaF2 phase. Wear, 2005, 259, 626-633. | 1.5 | 47 |
| 54 | Spark-plasma-sintered ZrO2(Y2O3)-BaCrO4 self-lubricating composites for high temperature tribological applications. Ceramics International, 2005, 31, 543-553. | 2.3 | 53 |

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| 55 | Oxidation protective silicide coating on Mo-Si-B alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 627-636. | 1.1 | 25 |
| 56 | Microstructure of Nb substrates coated with Mo(Si,Al)2â€“Al2O3 composite and B-doped Mo5Si3 layers by spark plasma sintering. Intermetallics, 2004, 12, 749-754. | 1.8 | 29 |
| 57 | The synergistic effects of CaF2 and Au lubricants on tribological properties of spark-plasma-sintered ZrO2(Y2O3) matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 386, 234-243. | 2.6 | 51 |
| 58 | High-Temperature Tribological Properties of Al<SUB>2</SUB>O<SUB>3</SUB>-X (X:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (BaC Containing Sintering Additives. Materials Transactions, 2004, 45, 2614-2617. | 0.4 | 16 |
| 59 | Oxidation behavior and thermal stability of Cr-doped Nb(Si,Al) 2 and Nb 3 Si 5 Al 2 matrix compacts prepared by spark plasma sintering. Intermetallics, 2003, 11, 269-278. | 1.8 | 22 |
| 60 | Oxidation behavior of Moâ€“9Siâ€“18B alloy pack-cemented in a Si-base pack mixture. Intermetallics, 2003, 11, 763-772. | 1.8 | 39 |
| 61 | Oxidation Behavior of Cr-Doped Nb(Si,Al)<sub>2</sub> and Coating Nb Substrates with Cr-Doped Nb(Si,Al)<sub>2</sub>. Materials Science Forum, 2003, 426-432, 2557-2562. | 0.3 | 3 |
| 62 | Oxidation Behavior of Mo-Based Alloys Coated with Silicide Using the Halide-Activated Pack Cementation Method. Materials Science Forum, 2003, 426-432, 1745-1750. | 0.3 | 2 |
| 63 | Preparation and Mechanical Properties of Nanocrystalline Bulk Materials by Spark Plasma Sintering Process. Materials Science Forum, 2003, 426-432, 2375-2380. | 0.3 | 7 |
| 64 | Tensile Properties of Nanostructured FGMs Produced by Spark Plasma Sintering. Materials Science Forum, 2003, 423-425, 283-286. | 0.3 | 7 |
| 65 | Microstructure, mechanical properties and oxidation behavior of Nbâ€“Siâ€“Al and Nbâ€“Siâ€“N powder compacts prepared by spark plasma sintering. Intermetallics, 2001, 9, 621-627. | 1.8 | 82 |
| 66 | Oxidation resistance of powder compacts of the Nbâ€“Siâ€“Cr system and Nb3Si5Al2 matrix compacts prepared by spark plasma sintering. Intermetallics, 2001, 9, 629-635. | 1.8 | 55 |
| 67 | Mechanical properties of spark plasma sintered Nbâ€“Al compacts strengthened by dispersion of Nb2N phase and additions of Mo and W. Intermetallics, 1999, 7, 731-739. | 1.8 | 25 |
| 68 | Microstructure, mechanical properties and oxidation behavior of powder compacts of the Nbâ€“Siâ€“B system prepared by spark plasma sintering. Intermetallics, 1999, 7, 1043-1048. | 1.8 | 73 |
| 69 | Microstructure of Nbâ€“Al powders consolidated by spark plasma sintering process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 239-240, 672-679. | 2.6 | 39 |
| 70 | High Temperature Tribology and Solid Lubrication of Advanced Ceramics. Key Engineering Materials, 0, 368-372, 1088-1091. | 0.4 | 11 |
| 71 | Influences of SrSO<sub>4</sub> and Ag on High Temperature Tribological Properties of Spark-Plasma-Sintered ZrO<sub>2</sub>(Y<sub>2</sub>O<sub>3</sub>)-Al<sub>2</sub>O<sub>3</sub&g Composites. Key Engineering Materials, 0, 434-435, 138-143. | 0.4 | 6 |
| 72 | Friction and Wear Properties of Fe<sub>7</sub>Mo<sub>6</sub>-Based Alloy under Various Sliding Conditions. Materials Science Forum, 0, 706-709, 1083-1088. | 0.3 | 0 |

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| 73 | Friction and Wear Properties of the Siliconized, Chromized and Borochromized Steel Substrates. Materials Science Forum, 0, 783-786, 1464-1469. | 0.3 | 3 |
| 74 | High-Temperature Tribological Properties of ReB<sub>2</sub>-Based Ceramic/Si<sub>3</sub>N<sub>4</sub> Sliding Pairs. Materials Science Forum, 0, 1016, 978-983. | 0.3 | 0 |