# Gunhee Jang

List of Publications by Year
in descending order

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| 28 | 565 | 687363 13 | 610901 24 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 28 | 28 | 28 | 428 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Resonance-based design of wireless magnetic capsule for effective sampling of microbiome in gastrointestinal tract. Sensors and Actuators A: Physical, 2022, 342, 113654. | 4.1 | 9 |
| 2 | Crawling Magnetic Robot to Perform a Biopsy in Tubular Environments by Controlling a Magnetic Field. Applied Sciences (Switzerland), 2021, 11, 5292. | 2.5 | 1 |
| 3 | Magnetic Navigation System Utilizing a Closed Magnetic Circuit to Maximize Magnetic Field and a Mapping Method to Precisely Control Magnetic Field in Real Time. IEEE Transactions on Industrial Electronics, 2018, 65, 5673-5681. | 7.9 | 45 |
| 4 | Finite-element coupled analyses of the Reynolds and Hagenâ€“Poiseuille equations to calculate pressure and flow of fluid dynamic bearings with a recirculation channel. Tribology International, 2018, 128, 52-64. | 5.9 | 9 |
| 5 | Selective Motion Control of a Crawling Magnetic Robot System for Wireless Self-Expandable Stent Delivery in Narrowed Tubular Environments. IEEE Transactions on Industrial Electronics, 2017, 64, 1636-1644. | 7.9 | 20 |
| 6 | Optimal design and experimental verification of fluid dynamic bearings with high load capacity applied to an integrated motor propulsor in unmanned underwater vehicles. Tribology International, 2017, 114, 221-233. | 5.9 | 18 |
| 7 | Robust shaft design to compensate deformation in the hub press-fitting and disk clamping process of 2.5â€³ HDDs. Microsystem Technologies, 2016, 22, 1299-1305. | 2.0 | 0 |
| 8 | Dynamic behavior of airâ€“oil interface in fluid dynamic bearings with a double sealing structure in a 2.5â€²â€² hard disk drive due to non-operating axial shock. Tribology International, 2016, 98, 306-316. | 5.9 | 3 |
| 9 | Robust hub design to prevent mechanical contact between the hub and sleeve of FDBs in an HDD due to disc clamping force. Microsystem Technologies, 2015, 21, 2797-2802. | 2.0 | 0 |
| 10 | Manipulation of permanent magnet beads with head-to-tail ring formation on thin 3D surfaces. Sensors and Actuators A: Physical, 2015, 233, 532-541. | 4.1 | 1 |
| 11 | A Spiral Microrobot Performing Navigating Linear and Drilling Motions by Magnetic Gradient and Rotating Uniform Magnetic Field for Applications in Unclogging Blocked Human Blood Vessels. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 18 |
| 12 | Monte Carlo simulation of the manufacturing tolerance in FDBs to identify the sensitive design variables affecting the performance of a disk-spindle system. Microsystem Technologies, 2015, 21, 2649-2656. | 2.0 | 4 |
| 13 | Stability analysis of a whirling rigid rotor supported by stationary grooved FDBs considering the five degrees of freedom of a general rotor-bearing system. Microsystem Technologies, 2015, 21, 2685-2696. | 2.0 | 2 |
| 14 | Dual-body magnetic helical robot for drilling and cargo delivery in human blood vessels. Journal of Applied Physics, 2015, 117, . | 2.5 | 21 |
| 15 | Capsule-Type Magnetic Microrobot Actuated by an External Magnetic Field for Selective Drug Delivery in Human Blood Vessels. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 14 |
| 16 | Crawling microrobot actuated by a magnetic navigation system in tubular environments. Sensors and Actuators A: Physical, 2014, 209, 100-106. | 4.1 | 34 |
| 17 | Effect of an hourglass-shaped sleeve on the performance of the fluid dynamic bearings of a HDD spindle motor. Microsystem Technologies, 2014, 20, 1435-1445. | 2.0 | 3 |
| 18 | Magnetic equilibrium postures of a multibody magnetic microrobot composed of a spherical magnet chain. Microsystem Technologies, 2014, 20, 1471-1478. | 2.0 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetically induced vibration of a flexible rotating disk-spindle system due to the internal magnetic force arising from the spindle motor of a HDD. Microsystem Technologies, 2013, 19, 1529-1537. | 2.0 | 2 |
| 20 | Optimal design of fluid dynamic bearings to develop a robust disk-spindle system in a hard disk drive utilizing modal analysis. Microsystem Technologies, 2013, 19, 1495-1504. | 2.0 | 6 |
| 21 | Robust optimal design of the FDBs in a HDD to reduce NRRO and RRO. Microsystem Technologies, 2012, 18, 1335-1342. | 2.0 | 5 |
| 22 | A generalized Reynolds equation and its perturbation equations for fluid dynamic bearings with curved surfaces. Tribology International, 2012, 50, 6-15. | 5.9 | 27 |
| 23 | Complete determination of the dynamic coefficients of coupled journal and thrust bearings considering five degrees of freedom for a general rotor-bearing system. Microsystem Technologies, 2011, 17, 749-759. | 2.0 | 19 |
| 24 | Robust design of a HDD spindle system supported by fluid dynamic bearings utilizing the stability analysis of five degrees of freedom of a general rotor-bearing system. Microsystem Technologies, 2011, 17, 761-770. | 2.0 | 9 |
| 25 | EMA system with gradient and uniform saddle coils for 3D locomotion of microrobot. Sensors and Actuators A: Physical, 2010, 163, 410-417. | 4.1 | 74 |
| 26 | Magnetic Navigation System With Gradient and Uniform Saddle Coils for the Wireless Manipulation of Micro-Robots in Human Blood Vessels. IEEE Transactions on Magnetics, 2010, 46, 1943-1946. | 2.1 | 146 |
| 27 | Stability analysis of a disk-spindle system supported by coupled journal and thrust bearings considering five degrees of freedom. Tribology International, 2010, 43, 1479-1490. | 5.9 | 35 |
| 28 | Determination of the dynamic coefficients of the coupled journal and thrust bearings by the perturbation method. Tribology Letters, 2006, 22, 239-246. | 2.6 | 40 |