

Douglas T Smith

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,603
citations

279798

23
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

2311
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Accurate spring constant calibration for very stiff atomic force microscopy cantilevers. Review of Scientific Instruments, 2013, 84, 113706. | 1.3 | 12 |
| 2 | Electron Transport in Gold Nanowires: Stable 1-, 2- and 3-Dimensional Atomic Structures and Noninteger Conduction States. Physical Review Letters, 2011, 107, 126802. | 7.8 | 19 |
| 3 | Nanomechanical standards based on the intrinsic mechanics of molecules and atoms. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 1-7. | 0.5 | 1 |
| 4 | Contact mechanics of layered elastic materials: experiment and theory. Journal Physics D: Applied Physics, 2007, 40, 5984-5994. | 2.8 | 38 |
| 5 | A Piezoresistive Cantilever Force Sensor for Direct AFM Force Calibration. Materials Research Society Symposia Proceedings, 2007, 1021, 1. | 0.1 | 6 |
| 6 | Review of SI traceable force metrology for instrumented indentation and atomic force microscopy. Measurement Science and Technology, 2005, 16, 2129-2137. | 2.6 | 105 |
| 7 | Progress toward Syst me International d'Unit s traceable force metrology for nanomechanics. Journal of Materials Research, 2004, 19, 366-379. | 2.6 | 67 |
| 8 | Strong and bioactive composites containing nano-silica-fused whiskers for bone repair. Biomaterials, 2004, 25, 4615-4626. | 11.4 | 69 |
| 9 | Effects of different whiskers on the reinforcement of dental resin composites. Dental Materials, 2003, 19, 359-367. | 3.5 | 109 |
| 10 | Dental resin composites containing silica-fused whiskers  effects of whisker-to-silica ratio on fracture toughness and indentation properties. Biomaterials, 2002, 23, 735-742. | 11.4 | 82 |
| 11 | Effect of thermal cycling on whisker-reinforced dental resin composites. Journal of Materials Science: Materials in Medicine, 2002, 13, 875-883. | 3.6 | 29 |
| 12 | Whisker-reinforced dental core buildup composites: Effect of filler level on mechanical properties. Journal of Biomedical Materials Research Part B, 2000, 52, 812-818. | 3.1 | 12 |
| 13 | Indentation modulus and hardness of whisker-reinforced heat-cured dental resin composites. Dental Materials, 2000, 16, 248-254. | 3.5 | 54 |
| 14 | Vortex pinning in microindented YBa ₂ Cu ₃ O _{7-x} single crystals. Journal of Applied Physics, 2000, 88, 1541-1546. | 2.5 | 5 |
| 15 | Mechanical properties of SiO ₂ and Si ₃ N ₄ coatings: a BAM/NIST co-operative project. Thin Solid Films, 1998, 332, 164-171. | 1.8 | 47 |
| 16 | Indentation Damage and Mechanical Properties of Human Enamel and Dentin. Journal of Dental Research, 1998, 77, 472-480. | 5.2 | 497 |
| 17 | c-Boron aluminum nitride alloys prepared by ion-beam assisted deposition. Thin Solid Films, 1997, 298, 33-38. | 1.8 | 22 |
| 18 | Title is missing!. Journal of Materials Science: Materials in Electronics, 1997, 8, 307-312. | 2.2 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Effect of beam voltage on the properties of aluminium nitride prepared by ion beam assisted deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 1996, 7, 247-253. | 2.2 | 41 |
| 20 | Influence of microstructure on indentation and machining of dental glass-ceramics. <i>Journal of Materials Research</i> , 1996, 11, 2325-2337. | 2.6 | 48 |
| 21 | Quantifying Local Microcrack Density in Ceramics: A Comparison of Instrumented Indentation and Thermal Wave Techniques. <i>Journal of the American Ceramic Society</i> , 1995, 78, 1301-1304. | 3.8 | 9 |
| 22 | Sputtered amorphous carbon nitride films. <i>Journal of Materials Research</i> , 1995, 10, 3079-3083. | 2.6 | 38 |
| 23 | Contact electrification induced by monolayer modification of a surface and relation to acid-base interactions. <i>Nature</i> , 1993, 366, 442-443. | 27.8 | 187 |
| 24 | Contact Electrification and Adhesion Between Dissimilar Materials. <i>Science</i> , 1992, 256, 362-364. | 12.6 | 294 |
| 25 | Fracture and Contact Adhesion Energies of Mica-Mica, Silica-Silica, and Mica-Silica Interfaces in Dry and Moist Atmospheres. <i>Journal of the American Ceramic Society</i> , 1992, 75, 667-676. | 3.8 | 90 |
| 26 | Analytic solution for the three-layer multiple beam interferometer. <i>Applied Optics</i> , 1991, 30, 59. | 2.1 | 47 |
| 27 | Measuring contact charge transfer at interfaces: a new experimental technique. <i>Journal of Electrostatics</i> , 1991, 26, 291-308. | 1.9 | 19 |
| 28 | Measuring surface forces to explore surface chemistry: Mica, sapphire and silica. <i>Journal of Non-Crystalline Solids</i> , 1990, 120, 72-81. | 3.1 | 31 |
| 29 | Third sound on patterned substrates. II. Random arrays and classical wave localization. <i>Physical Review B</i> , 1989, 40, 6648-6658. | 3.2 | 13 |
| 30 | Third sound on patterned substrates. I. Periodic and quasiperiodic arrays. <i>Physical Review B</i> , 1989, 40, 6634-6647. | 3.2 | 22 |
| 31 | Surface forces and viscosity of water measured between silica sheets. <i>Chemical Physics Letters</i> , 1989, 162, 404-408. | 2.6 | 392 |
| 32 | Surface Forces and Adhesion Between Dissimilar Materials Measured in Various Environments. <i>Materials Research Society Symposia Proceedings</i> , 1989, 170, 3. | 0.1 | 4 |
| 33 | Third Sound on Substrates Patterned with Periodic and Random Disorder: Evidence for Classical Wave Localization. <i>Physical Review Letters</i> , 1988, 61, 1286-1289. | 7.8 | 31 |
| 34 | Adsorption and capillary condensation of He-4 on Nuclepore: Third-sound and capacitance measurements. <i>Physical Review B</i> , 1987, 36, 202-216. | 3.2 | 31 |
| 35 | Hysteretic capillary condensation of He-4 on Nuclepore substrates: simultaneous third-sound and direct-capacitance measurements. <i>Canadian Journal of Physics</i> , 1987, 65, 1566-1568. | 1.1 | 0 |
| 36 | Third-sound propagation in He-4 films adsorbed on silicon. <i>Physical Review B</i> , 1986, 34, 226-232. | 3.2 | 27 |

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|----|---|-----|-----------|
| 37 | Comment on Fractal Aggregates in Sputter-Deposited Films. Physical Review Letters, 1985, 54, 2646-2646. | 7.8 | 12 |
| 38 | Al ₂ O ₃ aggregate growth from an air suspension. Physical Review A, 1985, 32, 3118-3119. | 2.5 | 3 |
| 39 | Third Sound in He ⁴ Adsorbed on Nuclepore. Physical Review Letters, 1985, 54, 1528-1531. | 7.8 | 72 |
| 40 | Effect of the Spherical Indenter Tip Assumption on the Initial Plastic Yield Stress. , 0, , . | | 4 |