# Thomas G Thundat

List of Publications by Year
in descending order



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|---|---|---|---|
| 439 papers | 19,010 citations | 9786 73 h-index | 18130 120 g-index |
| 441 all docs | 441 docs citations | 441 times ranked | 17395 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bioassay of prostate-specific antigen (PSA) using microcantilevers. Nature Biotechnology, 2001, 19, 856-860. | 17.5 | 968 |
| 2 | Adsorptionâ€induced surface stress and its effects on resonance frequency of microcantilevers. Journal of Applied Physics, 1995, 77, 3618-3622. | 2.5 | 507 |
| 3 | Nanotechnologies for biomolecular detection and medical diagnostics. Current Opinion in Chemical Biology, 2006, 10, 11-19. | 6.1 | 448 |
| 4 | Thermal and ambientâ€induced deflections of scanning force microscope cantilevers. Applied Physics Letters, 1994, 64, 2894-2896. | 3.3 | 401 |
| 5 | Cantilever-Based Optical Deflection Assay for Discrimination of DNA Single-Nucleotide Mismatches. Analytical Chemistry, 2001, 73, 1567-1571. | 6.5 | 363 |
| 6 | Stretchable, Injectable, and Self-Healing Conductive Hydrogel Enabled by Multiple Hydrogen Bonding toward Wearable Electronics. Chemistry of Materials, 2019, 31, 4553-4563. | 6.7 | 321 |
| 7 | Nanosensors for trace explosive detection. Materials Today, 2008, 11, 28-36. | 14.2 | 296 |
| 8 | Glucose Biosensor Based on the Microcantilever. Analytical Chemistry, 2004, 76, 292-297. | 6.5 | 289 |
| 9 | Preparation and characterization of STM tips for electrochemical studies. Review of Scientific Instruments, 1989, 60, 3128-3130. | 1.3 | 288 |
| 10 | Reviewâ€"Organic-Inorganic Hybrid Functional Materials: An Integrated Platform for Applied Technologies. Journal of the Electrochemical Society, 2018, 165, B3137-B3156. | 2.9 | 282 |
| 11 | A Novel Approach Toward Fabrication of High Performance Thin Film Composite Polyamide Membranes. Scientific Reports, 2016, 6, 22069. | 3.3 | 267 |
| 12 | Resonance response of scanning force microscopy cantilevers. Review of Scientific Instruments, 1994, 65, 2532-2537. | 1.3 | 237 |
| 13 | Gold grown epitaxially on mica: conditions for large area flat faces. Surface Science, 1991, 256, 102-108. | 1.9 | 235 |
| 14 | Direct-current triboelectricity generation by a sliding Schottky nanocontact on MoS2 multilayers. Nature Nanotechnology, 2018, 13, 112-116. | 31.5 | 230 |
| 15 | Vapor Detection Using Resonating Microcantilevers. Analytical Chemistry, 1995, 67, 519-521. | 6.5 | 211 |
| 16 | MICROCANTILEVER SENSORS. Microscale Thermophysical Engineering, 1997, 1, 185-199. | 1.2 | 204 |
| 17 | Origin of nanomechanical cantilever motion generated from biomolecular interactions. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1560-1564. | 7.1 | 200 |
| 18 | Microcantilever biosensors. Methods, 2005, 37, 57-64. | 3.8 | 192 |

| # | Article | IF | Citations |
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| 19 | Sensitive detection of plastic explosives with self-assembled monolayer-coated microcantilevers. Applied Physics Letters, 2003, 83, 1471-1473. | 3.3 | 191 |
| 20 | A coupling for success: Controlled growth of Co/CoOx nanoshoots on perovskite mesoporous nanofibres as high-performance trifunctional electrocatalysts in alkaline condition. Nano Energy, 2017, 32, 247-254. | 16.0 | 189 |
| 21 | A microsensor for trinitrotoluene vapour. Nature, 2003, 425, 474-474. | 27.8 | 173 |
| 22 | Cantilever Sensors: Nanomechanical Tools for Diagnostics. MRS Bulletin, 2009, 34, 449-454. | 3.5 | 170 |
| 23 | Viscous drag measurements utilizing microfabricated cantilevers. Applied Physics Letters, 1996, 68, 3814-3816. | 3.3 | 165 |
| 24 | Nerve Agents Detection Using a Cu2+/l-Cysteine Bilayer-Coated Microcantilever. Journal of the American Chemical Society, 2003, 125, 1124-1125. | 13.7 | 158 |
| 25 | Imaging nanoparticles in cells by nanomechanical holography. Nature Nanotechnology, 2008, 3, 501-505. | 31.5 | 152 |
| 26 | Thin film composite polyamide membranes: parametric study on the influence of synthesis conditions. RSC Advances, 2015, 5, 54985-54997. | 3.6 | 145 |
| 27 | Micromechanical sensors for chemical and physical measurements. Review of Scientific Instruments, 1995, 66, 3662-3667. | 1.3 | 140 |
| 28 | Nanocrystalline ruthenium oxide dispersed Few Layered Graphene (FLG) nanoflakes as supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 14944. | 6.7 | 136 |
| 29 | Fabrication of antifouling and antibacterial polyethersulfone (PES)/cellulose nanocrystals (CNC) nanocomposite membranes. Journal of Membrane Science, 2018, 549, 350-356. | 8.2 | 135 |
| 30 | Polypyrrole-Doped Conductive Supramolecular Elastomer with Stretchability, Rapid Self-Healing, and Adhesive Property for Flexible Electronic Sensors. ACS Applied Materials & Interfaces, 2019, 11, 18720-18729. | 8.0 | 135 |
| 31 | Microfluidic cantilever detects bacteria and measures their susceptibility to antibiotics in small confined volumes. Nature Communications, 2016, 7, 12947. | 12.8 | 134 |
| 32 | High performance triboelectric nanogenerators based on phase-inversion piezoelectric membranes of poly(vinylidene fluoride)-zinc stannate (PVDF-ZnSnO3) and polyamide-6 (PA6). Nano Energy, 2016, 30, 470-480. | 16.0 | 134 |
| 33 | Carbonized nanocellulose sustainably boosts the performance of activated carbon in ionic liquid supercapacitors. Nano Energy, 2016, 25, 161-169. | 16.0 | 133 |
| 34 | Robust fabrication of thin film polyamide-TiO2 nanocomposite membranes with enhanced thermal stability and anti-biofouling propensity. Scientific Reports, 2018, 8, 784. | 3.3 | 131 |
| 35 | Stretched DNA structures observed with atomic force microscopy. Nucleic Acids Research, 1994, 22, 4224-4228. | 14.5 | 118 |
| 36 | Investigation of adsorption and absorption-induced stresses using microcantilever sensors. Journal of Applied Physics, 2001, 90, 427-431. | 2.5 | 117 |

| # | Article | IF | Citations |
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| 37 | Pulsed Laser Deposited Dysprosiumâ€Doped Gadoliniumâ€“Vanadate Thin Films for Noncontact, Selfâ€Referencing Luminescence Thermometry. Advanced Materials, 2016, 28, 7745-7752. | 21.0 | 115 |
| 38 | Microcantilever biosensors for chemicals and bioorganisms. Analyst, The, 2011, 136, 1539. | 3.5 | 112 |
| 39 | A novel self-assembled monolayer (SAM) coated microcantilever for low level caesium detection. Chemical Communications, 2000, , 457-458. | 4.1 | 109 |
| 40 | Detection of 2,4-dinitrotoluene using microcantilever sensors. Sensors and Actuators B: Chemical, 2004, 99, 223-229. | 7.8 | 109 |
| 41 | Design & fabrication of cantilever array biosensors. Materials Today, 2009, 12, 32-38. | 14.2 | 107 |
| 42 | New modes for subsurface atomic force microscopy through nanomechanical coupling. Nature Nanotechnology, 2010, 5, 105-109. | 31.5 | 107 |
| 43 | Friction effects in the deflection of atomic force microscope cantilevers. Review of Scientific Instruments, 1994, 65, 394-399. | 1.3 | 106 |
| 44 | Detection of Hg2+Using Microcantilever Sensors. Analytical Chemistry, 2002, 74, 3611-3615. | 6.5 | 106 |
| 45 | Detection of CrO42-Using a Hydrogel Swelling Microcantilever Sensor. Analytical Chemistry, 2003, 75, 4773-4777. | 6.5 | 106 |
| 46 | Sustained electron tunneling at unbiased metal-insulator-semiconductor triboelectric contacts. Nano Energy, 2018, 48, 320-326. | 16.0 | 103 |
| 47 | Detection of heavy metal ions using protein-functionalized microcantilever sensors. Biosensors and Bioelectronics, 2003, 19, 411-416. | 10.1 | 102 |
| 48 | Glucose biosensing using an enzyme-coated microcantilever. Applied Physics Letters, 2002, 81, 385-387. | 3.3 | 101 |
| 49 | A parametric study on the synergistic impacts of chemical additives on permeation properties of thin film composite polyamide membrane. Journal of Membrane Science, 2017, 535, 248-257. | 8.2 | 100 |
| 50 | Critical Issues in Sensor Science To Aid Food and Water Safety. ACS Nano, 2012, 6, 4548-4556. | 14.6 | 99 |
| 51 | Nanolithography on semiconductor surfaces under an etching solution. Applied Physics Letters, 1990, 57, 270-272. | 3.3 | 98 |
| 52 | Standoff photoacoustic spectroscopy. Applied Physics Letters, 2008, 92, . | 3.3 | 96 |
| 53 | Standoff Spectroscopy of Surface Adsorbed Chemicals. Analytical Chemistry, 2009, 81, 1952-1956. | 6.5 | 96 |
| 54 | Measurement of Mechanical Properties of Cantilever Shaped Materials. Sensors, 2008, 8, 3497-3541. | 3.8 | 94 |

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| 55 | Ultrasensitive Detection of CrO42-Using a Microcantilever Sensor. Analytical Chemistry, 2001, 73, 1572-1576. | 6.5 | 92 |
| 56 | Mercury vapor detection with a self-sensing, resonating piezoelectric cantilever. Review of Scientific Instruments, 2003, 74, 4899-4901. | 1.3 | 92 |
| 57 | Detection of trinitrotoluene via deflagration on a microcantilever. Journal of Applied Physics, 2004, 95, 5871-5875. | 2.5 | 92 |
| 58 | Degradable Thermoresponsive Nanogels for Protein Encapsulation and Controlled Release. Bioconjugate Chemistry, 2012, 23, 75-83. | 3.6 | 91 |
| 59 | Impedimetric Detection of Pathogenic Gram-Positive Bacteria Using an Antimicrobial Peptide from Class IIa Bacteriocins. Analytical Chemistry, 2014, 86, 1693-1700. | 6.5 | 90 |
| 60 | STM and AFM Images of Nucleosome DNA Under Water. Journal of Biomolecular Structure and Dynamics, 1989, 7, 279-287. | 3.5 | 88 |
| 61 | Determination of adsorption-induced variation in the spring constant of a microcantilever. Applied Physics Letters, 2002, 80, 2219-2221. | 3.3 | 88 |
| 62 | Effects of temperature and pressure on microcantilever resonance response. Ultramicroscopy, 2003, 97, 119-126. | 1.9 | 87 |
| 63 | Trace explosive detection using photothermal deflection spectroscopy. Journal of Applied Physics, 2008, 103, . | 2.5 | 83 |
| 64 | Sustained drug release and antibacterial activity of ampicillin incorporated poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (m | 3.8 | 83 |
| 65 | Flexible Ultraviolet Photodetectors Based on One-Dimensional Gallium-Doped Zinc Oxide Nanostructures. ACS Applied Electronic Materials, 2020, 2, 3522-3529. | 4.3 | 82 |
| 66 | Injectable Self-Healing Zwitterionic Hydrogels Based on Dynamic Benzoxaboroleâ€“Sugar Interactions with Tunable Mechanical Properties. Biomacromolecules, 2018, 19, 596-605. | 5.4 | 81 |
| 67 | Microwave ring resonator-based non-contact interface sensor for oil sands applications. Sensors and Actuators B: Chemical, 2016, 224, 632-639. | 7.8 | 80 |
| 68 | Simulation of adsorption-induced stress of a microcantilever sensor. Journal of Applied Physics, 2005, 97, 043526. | 2.5 | 79 |
| 69 | Detection of pH variation using modified microcantilever sensors. Sensors and Actuators B: Chemical, 2001, 72, 233-238. | 7.8 | 78 |
| 70 | Universal spin-momentum locked optical forces. Applied Physics Letters, 2016, 108, . | 3.3 | 78 |
| 71 | Synthesis of Selenium Nanoparticle and Its Photocatalytic Application for Decolorization of Methylene Blue under UV Irradiation. Langmuir, 2004, 20, 7880-7883. | 3.5 | 77 |
| 72 | A web of streamers: biofilm formation in a porous microfluidic device. Lab on A Chip, 2012, 12, 5133. | 6.0 | 76 |

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| 73 | High resolution microwave microstrip resonator for sensing applications. Sensors and Actuators A: Physical, 2015, 233, 224-230. | 4.1 | 75 |
| 74 | Multi-Walled Carbon Nanotubes Decorated with Silver Nanoparticles for Acetone Gas Sensing at Room Temperature. Journal of the Electrochemical Society, 2020, 167, 167519. | 2.9 | 75 |
| 75 | Microfluidic manipulation via Marangoni forces. Applied Physics Letters, 2004, 85, 4237-4239. | 3.3 | 74 |
| 76 | Glucose-responsive polymer brushes for microcantilever sensing. Journal of Materials Chemistry, 2010, 20, 3391. | 6.7 | 74 |
| 77 | Manipulation and controlled amplification of Brownian motion of microcantilever sensors. Applied Physics Letters, 2001, 78, 1637-1639. | 3.3 | 73 |
| 78 | Nanomechanical sandwich assay for multiple cancer biomarkers in breast cancer cell-derived exosomes. Nanoscale, 2016, 8, 15137-15141. | 5.6 | 73 |
| 79 | Harmonic response of nearâ€contact scanning force microscopy. Journal of Applied Physics, 1995, 78, 1465-1469. | 2.5 | 72 |
| 80 | Real-time Detection of Breast Cancer Cells Using Peptide-functionalized Microcantilever Arrays. Scientific Reports, 2015, 5, 13967. | 3.3 | 72 |
| 81 | Interfacial friction-induced electronic excitation mechanism for tribo-tunneling current generation. Materials Horizons, 2019, 6, 1020-1026. | 12.2 | 70 |
| 82 | Portable Nanofiber-Light Addressable Potentiometric Sensor for Rapid Escherichia coli Detection in Orange Juice. ACS Sensors, 2018, 3, 815-822. | 7.8 | 69 |
| 83 | Observation of dipolar emission patterns from isolated Eu3+:Y2O3 doped nanocrystals: new evidence for single ion luminescence. Chemical Physics Letters, 2002, 358, 459-465. | 2.6 | 68 |
| 84 | In situ detection of calcium ions with chemically modified microcantilevers. Biosensors and Bioelectronics, 2002, 17, 337-343. | 10.1 | 67 |
| 85 | Bioelectromechanical imaging by scanning probe microscopy: Galvani's experiment at the nanoscale. Ultramicroscopy, 2006, 106, 334-340. | 1.9 | 66 |
| 86 | Detection of Volatile Organic Compounds Using Microwave Sensors. IEEE Sensors Journal, 2015, 15, 248-254. | 4.7 | 66 |
| 87 | Synthesis of thin film composite polyamide membranes: Effect of monohydric and polyhydric alcohol additives in aqueous solution. Journal of Membrane Science, 2017, 523, 336-345. | 8.2 | 66 |
| 88 | Developing high throughput thin film composite polyamide membranes for forward osmosis treatment of SAGD produced water. Journal of Membrane Science, 2016, 511, 29-39. | 8.2 | 64 |
| 89 | The detection of Escherichia coli (E. coli) with the pH sensitive hydrogel nanofiber-light addressable potentiometric sensor (NF-LAPS). Sensors and Actuators B: Chemical, 2016, 226, 176-183. | 7.8 | 64 |
| 90 | Knudsen forces on microcantilevers. Journal of Applied Physics, 2002, 92, 6326-6333. | 2.5 | 63 |

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| 91 | Metabolic Study of Cancer Cells Using a pH Sensitive Hydrogel Nanofiber Light Addressable Potentiometric Sensor. ACS Sensors, 2017, 2, 151-156. | 7.8 | 63 |
| 92 | Atomic force microscope investigation of C60adsorbed on silicon and mica. Applied Physics Letters, 1993, 63, 891-893. | 3.3 | 62 |
| 93 | Optical modulation processes in thin films based on thermal effects of surface plasmons. Applied Physics Letters, 2005, 86, 154101. | 3.3 | 62 |
| 94 | Moore's law in homeland defense: an integrated sensor platform based on silicon microcantilevers. IEEE Sensors Journal, 2005, 5, 774-785. | 4.7 | 62 |
| 95 | Characterization of atomic force microscope tips by adhesion force measurements. Applied Physics Letters, 1993, 63, 2150-2152. | 3.3 | 60 |
| 96 | A rational design for enhanced oxygen reduction: Strongly coupled silver nanoparticles and engineered perovskite nanofibers. Nano Energy, 2017, 38, 392-400. | 16.0 | 60 |
| 97 | Anomalous interfacial stress generation during sodium intercalation/extraction in MoS <sub>2</sub> thin-film anodes. Science Advances, 2019, 5, eaav2820. | 10.3 | 60 |
| 98 | A sensitive, handheld vapor sensor based on microcantilevers. Review of Scientific Instruments, 2004, 75, 4554-4557. | 1.3 | 58 |
| 99 | Direct atomic force microscope imaging of EcoRI endonuclease site specifically bound to plasmid DNA molecules.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8826-8829. | 7.1 | 57 |
| 100 | Photothermal spectroscopy of Bacillus anthracis and Bacillus cereus with microcantilevers. Sensors and Actuators B: Chemical, 2006, 114, 206-211. | 7.8 | 56 |
| 101 | Separation and Quantum Tunneling of Photo-generated Carriers Using a Tribo-Induced Field. Matter, 2019, 1, 650-660. | 10.0 | 56 |
| 102 | Detection of Femtomolar Concentrations of HF Using an SiO2Microcantilever. Analytical Chemistry, 2004, 76, 2478-2481. | 6.5 | 55 |
| 103 | Elastic phase response of silica nanoparticles buried in soft matter. Applied Physics Letters, 2008, 93, . | 3.3 | 55 |
| 104 | Freestanding hierarchical porous carbon film derived from hybrid nanocellulose for high-power supercapacitors. Nano Research, 2017, 10, 1847-1860. | 10.4 | 55 |
| 105 | Scaled-up Direct-Current Generation in MoS<sub>2</sub> Multilayer-Based Moving Heterojunctions. ACS Applied Materials & Interfaces, 2019, 11, 35404-35409. | 8.0 | 55 |
| 106 | Adsorptionâ€“desorption characteristics of explosive vapors investigated with microcantilevers. Ultramicroscopy, 2003, 97, 433-439. | 1.9 | 51 |
| 107 | Surface enhanced strong visible photoluminescence from one-dimensional multiferroic BiFeO3 nanostructures. Surface Science, 2012, 606, L83-L86. | 1.9 | 51 |
| 108 | Nanomechanical Effect of Enzymatic Manipulation of DNA on Microcantilever Surfaces. Langmuir, 2002, 18, 8732-8736. | 3.5 | 48 |

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|---|---|---|---|
| 109 | Standoff detection of explosive residues using photothermal microcantilevers. Applied Physics Letters, 2008, 92, . | 3.3 | 48 |
| 110 | Consistently High V<sub>oc</sub> Values in p-i-n Type Perovskite Solar Cells Using Ni<sup>3+</sup>-Doped NiO Nanomesh as the Hole Transporting Layer. ACS Applied Materials & Interfaces, 2020, 12, 11467-11478. | 8.0 | 48 |
| 111 | Mapping Individual Cosmid DNAs by Direct AFM Imaging. Genomics, 1997, 41, 379-384. | 2.9 | 46 |
| 112 | Oriented Nanostructures from Single Molecules of a Semiconducting Polymer:â€‰ Polarization Evidence for Highly Aligned Intramolecular Geometries. Nano Letters, 2003, 3, 603-607. | 9.1 | 46 |
| 113 | Label-Free Sugar Detection Using Phenylboronic Acid-Functionalized Piezoresistive Microcantilevers. Analytical Chemistry, 2008, 80, 4860-4865. | 6.5 | 46 |
| 114 | Triboâ€Tunneling DC Generator with Carbon Aerogel/Silicon Multiâ€Nanocontacts. Advanced Electronic Materials, 2019, 5, 1900464. | 5.1 | 46 |
| 115 | Effect of annealing atmosphere on microstructural and photoluminescence characteristics of multiferroic BiFeO3 thin films prepared by pulsed laser deposition technique. Applied Physics A: Materials Science and Processing, 2013, 110, 903-907. | 2.3 | 45 |
| 116 | Photocatalytic BiFeO<sub>3</sub>Nanofibrous Mats for Effective Water Treatment. Journal of Nanotechnology, 2013, 2013, 1-6. | 3.4 | 45 |
| 117 | Molecular recognition using receptor-free nanomechanical infrared spectroscopy based on a quantum cascade laser. Scientific Reports, 2013, 3, 1111. | 3.3 | 45 |
| 118 | Adsorption of Trinitrotoluene on Uncoated Silicon Microcantilever Surfaces. Langmuir, 2004, 20, 2690-2694. | 3.5 | 43 |
| 119 | Nanocatalytic Spontaneous Ignition and Self-Supporting Room-Temperature Combustion. Energy & Fuels, 2005, 19, 855-858. | 5.1 | 43 |
| 120 | Surface-Conjugated Antimicrobial Peptide Leucocin A Displays High Binding to Pathogenic Gram-Positive Bacteria. ACS Applied Materials & Interfaces, 2014, 6, 1131-1138. | 8.0 | 43 |
| 121 | Piezotransistive transduction of femtoscale displacement for photoacoustic spectroscopy. Nature Communications, 2015, 6, 7885. | 12.8 | 43 |
| 122 | Hollow Microtube Resonators via Silicon Self-Assembly toward Subattogram Mass Sensing Applications. Nano Letters, 2016, 16, 1537-1545. | 9.1 | 43 |
| 123 | Rapid and Highly Sensitive Detection of Dopamine Using Conjugated Oxaborole-Based Polymer and Glycopolymer Systems. ACS Applied Materials & Interfaces, 2017, 9, 15225-15231. | 8.0 | 41 |
| 124 | Flocculation and Dewatering of Mature Fine Tailings Using Temperature-Responsive Cationic Polymers. Langmuir, 2017, 33, 5900-5909. | 3.5 | 41 |
| 125 | Chemisorption of bromine on cleaved silicon (111) surfaces: An X-ray standing wave interference spectrometric analysis. Surface Science, 1985, 163, 457-477. | 1.9 | 40 |
| 126 | Effect of nanometer surface morphology on surface stress and adsorption kinetics of alkanethiol self-assembled monolayers. Ultramicroscopy, 2006, 106, 795-799. | 1.9 | 39 |

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| 127 | Effect of normal vibration on friction in the atomic force microscopy experiment. Applied Physics Letters, 2006, 88, 214102. | 3.3 | 39 |
| 128 | Micro-differential thermal analysis detection of adsorbed explosive molecules using microfabricated bridges. Review of Scientific Instruments, 2009, 80, 035102. | 1.3 | 39 |
| 129 | Pumpâ€“probe photothermal spectroscopy using quantum cascade lasers. Journal Physics D: Applied Physics, 2012, 45, 125101. | 2.8 | 39 |
| 130 | Modulation of multiple photon energies by use of surface plasmons. Optics Letters, 2005, 30, 41. | 3.3 | 38 |
| 131 | Hydrogen Sensing at Room Temperature Using Flame-Synthesized Palladium-Decorated Crumpled Reduced Graphene Oxide Nanocomposites. ACS Sensors, 2020, 5, 2344-2350. | 7.8 | 38 |
| 132 | Observation of Knudsen effect with microcantilevers. Ultramicroscopy, 2003, 97, 401-406. | 1.9 | 37 |
| 133 | Observation of the surface stress induced in microcantilevers by electrochemical redox processes. Ultramicroscopy, 2004, 100, 217-223. | 1.9 | 37 |
| 134 | Desorption characteristics of uncoated silicon microcantilever surfaces for explosive and common nonexplosive vapors. Ultramicroscopy, 2004, 100, 211-216. | 1.9 | 37 |
| 135 | Effect of chain length on nanomechanics of alkanethiol self-assembly. Nanotechnology, 2007, 18, 424028. | 2.6 | 37 |
| 136 | Detection of Cd(II) using antibody-modified microcantilever sensors. Ultramicroscopy, 2007, 107, 1123-1128. | 1.9 | 37 |
| 137 | Size-correlated spectroscopy and imaging of rare-earth-doped nanocrystals. Applied Optics, 2003, 42, 2132. | 2.1 | 36 |
| 138 | Step Instabilities: A New Kinetic Route to 3D Growth. Physical Review Letters, 1995, 75, 1582-1585. | 7.8 | 35 |
| 139 | Modal analysis of microcantilever sensors with environmental damping. Journal of Applied Physics, 2005, 97, 084902. | 2.5 | 35 |
| 140 | Atomic force microscopy of silica nanoparticles and carbon nanohorns in macrophages and red blood cells. Ultramicroscopy, 2010, 110, 586-591. | 1.9 | 35 |
| 141 | Bacterial floc mediated rapid streamer formation in creeping flows. Scientific Reports, 2015, 5, 13070. | 3.3 | 35 |
| 142 | Electrical, spectroscopic, and morphological investigation of chromium diffusion through gold films. Thin Solid Films, 1990, 189, 59-72. | 1.8 | 34 |
| 143 | Molecular recognition of biowarfare agents using micromechanical sensors. Expert Review of Molecular Diagnostics, 2004, 4, 859-866. | 3.1 | 34 |
| 144 | Dynamic Microcantilever Sensors for Discerning Biomolecular Interactions. Analytical Chemistry, 2005, 77, 1601-1606. | 6.5 | 34 |

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| 145 | Marangoni forces created by surface plasmon decay. Optics Letters, 2005, 30, 616. | 3.3 | 34 |
| 146 | Single-contact transmission for the quasi-wireless delivery of power over large surfaces. Wireless Power Transfer, 2014, 1, 75-82. | 1.1 | 34 |
| 147 | Opto-nanomechanical spectroscopic material characterization. Nature Nanotechnology, 2015, 10, 870-877. | 31.5 | 34 |
| 148 | Dynamics of bacterial streamers induced clogging in microfluidic devices. Lab on A Chip, 2016, 16, 4091-4096. | 6.0 | 34 |
| 149 | Effect of process parameters on phase stability and metal-insulator transition of vanadium dioxide (VO2) thin films by pulsed laser deposition. Acta Materialia, 2017, 137, 12-21. | 7.9 | 34 |
| 150 | AFM and RHEED study of Ge islanding on Si(111) and Si(100). Applied Surface Science, 1996, 104-105, 510-515. | 6.1 | 33 |
| 151 | Investigating the Mechanical Effects of Adsorption of Ca2+Ions on a Silicon Nitride Microcantilever Surface. Langmuir, 2002, 18, 6935-6939. | 3.5 | 33 |
| 152 | Use of Microcantilevers for the Monitoring of Molecular Binding to Self-Assembled Monolayers. Langmuir, 2003, 19, 7841-7844. | 3.5 | 33 |
| 153 | Vibtrational energy harvesting using photo-patternable piezoelectric nanocomposite cantilevers. Nano Energy, 2013, 2, 923-932. | 16.0 | 33 |
| 154 | Core cross-linked double hydrophilic block copolymer micelles based on multiple hydrogen-bonding interactions. Polymer Chemistry, 2017, 8, 3066-3073. | 3.9 | 33 |
| 155 | Instant curvature measurement for microcantilever sensors. Applied Physics Letters, 2004, 85, 1083-1084. | 3.3 | 32 |
| 156 | Photon-driven nanomechanical cyclic motion. Chemical Communications, 2004, , 2532. | 4.1 | 31 |
| 157 | Spectroscopy and atomic force microscopy of biomass. Ultramicroscopy, 2010, 110, 701-707. | 1.9 | 31 |
| 158 | Peptide-Bacteria Interactions using Engineered Surface-Immobilized Peptides from Class IIa Bacteriocins. Langmuir, 2013, 29, 4048-4056. | 3.5 | 31 |
| 159 | Standoff reflectionâ€“absorption spectra of surface adsorbed explosives measured with pulsed quantum cascade lasers. Sensors and Actuators B: Chemical, 2014, 191, 450-456. | 7.8 | 31 |
| 160 | Discerning Biomolecular Interactions Using Kelvin Probe Technology. Langmuir, 2003, 19, 7514-7520. | 3.5 | 30 |
| 161 | Nanomechanics of a self-assembled monolayer on microcantilever sensors measured by a multiple-point deflection technique. Sensors and Actuators B: Chemical, 2007, 122, 365-368. | 7.8 | 30 |
| 162 | Enhanced photo-collection in single BiFeO3 nanowire due to carrier separation from radial surface field. Nano Energy, 2015, 13, 240-248. | 16.0 | 30 |

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| 163 | Effect of interface on mid-infrared photothermal response of MoS2 thin film grown by pulsed laser deposition. Nano Research, 2017, 10, 3571-3584. | 10.4 | 30 |
| 164 | Carbon fiber doped thermosetting elastomer for flexible sensors: physical properties and microfabrication. Scientific Reports, 2018, 8, 12313. | 3.3 | 30 |
| 165 | Effect of thermal variations on the Knudsen forces in the transitional regime. Applied Physics Letters, 2004, 84, 1013-1015. | 3.3 | 29 |
| 166 | Gas sensing using electrostatic force potentiometry. Applied Physics Letters, 2007, 90, 173105. | 3.3 | 29 |
| 167 | Fluidic applications for atomic force microscopy (AFM) with microcantilever sensors. Experiments in Fluids, 2010, 48, 721-736. | 2.4 | 29 |
| 168 | Virtual Resonance and Frequency Difference Generation by van der Waals Interaction. Physical Review Letters, 2011, 106, 180801. | 7.8 | 29 |
| 169 | Analytical model for zeta potential of asphaltene. Fuel, 2013, 108, 543-549. | 6.4 | 29 |
| 170 | Electrochemical and oxygen reduction properties of pristine and nitrogen-doped few layered graphene nanoflakes (FLGs). Journal of Solid State Electrochemistry, 2013, 17, 2139-2149. | 2.5 | 29 |
| 171 | Direct Detection and Speciation of Trace Explosives Using a Nanoporous Multifunctional Microcantilever. Analytical Chemistry, 2014, 86, 5077-5082. | 6.5 | 29 |
| 172 | Mapping and Quantifying Surface Charges on Clay Nanoparticles. Langmuir, 2015, 31, 10469-10476. | 3.5 | 28 |
| 173 | Detection of adsorbed explosive molecules using thermal response of suspended microfabricated bridges. Applied Physics Letters, 2008, 93, 154102. | 3.3 | 27 |
| 174 | Surface dominant photoresponse of multiferroic BiFeO<sub>3</sub>nanowires under sub-bandgap illumination. Nanotechnology, 2013, 24, 505710. | 2.6 | 27 |
| 175 | Effect of Temperature on Morphologies of Evaporation-Triggered Asphaltene Nanoaggregates. Langmuir, 2014, 30, 800-804. | 3.5 | 26 |
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