## Thomas G Thundat

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

394 papers

**15,441** citations

68 h-index

108 g-index

441 ext. papers

17,377 ext. citations

avg, IF

**6.73** L-index

#	Paper	IF	Citations
394	Bioassay of prostate-specific antigen (PSA) using microcantilevers. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 856-	- <b>6</b> Ω <sub>4.5</sub>	836
393	Adsorption-induced surface stress and its effects on resonance frequency of microcantilevers. Journal of Applied Physics, 1995, 77, 3618-3622	2.5	440
392	Nanotechnologies for biomolecular detection and medical diagnostics. <i>Current Opinion in Chemical Biology</i> , <b>2006</b> , 10, 11-9	9.7	408
391	Thermal and ambient-induced deflections of scanning force microscope cantilevers. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 2894-2896	3.4	334
390	Cantilever-based optical deflection assay for discrimination of DNA single-nucleotide mismatches. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1567-71	7.8	300
389	Glucose biosensor based on the microcantilever. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 292-7	7.8	252
388	Nanosensors for trace explosive detection. <i>Materials Today</i> , <b>2008</b> , 11, 28-36	21.8	250
387	Preparation and characterization of STM tips for electrochemical studies. <i>Review of Scientific Instruments</i> , <b>1989</b> , 60, 3128-3130	1.7	221
386	Gold grown epitaxially on mica: conditions for large area flat faces. <i>Surface Science</i> , <b>1991</b> , 256, 102-108	1.8	217
385	Resonance response of scanning force microscopy cantilevers. <i>Review of Scientific Instruments</i> , <b>1994</b> , 65, 2532-2537	1.7	212
384	Review Drganic-Inorganic Hybrid Functional Materials: An Integrated Platform for Applied Technologies. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B3137-B3156	3.9	199
383	Stretchable, Injectable, and Self-Healing Conductive Hydrogel Enabled by Multiple Hydrogen Bonding toward Wearable Electronics. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4553-4563	9.6	194
382	Origin of nanomechanical cantilever motion generated from biomolecular interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 1560-4	11.5	187
381	A Novel Approach Toward Fabrication of High Performance Thin Film Composite Polyamide Membranes. <i>Scientific Reports</i> , <b>2016</b> , 6, 22069	4.9	186
380	MICROCANTILEVER SENSORS. <i>Microscale Thermophysical Engineering</i> , <b>1997</b> , 1, 185-199		181
379	Vapor Detection Using Resonating Microcantilevers. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 519-521	7.8	174
378	Microcantilever biosensors. <i>Methods</i> , <b>2005</b> , 37, 57-64	4.6	169

## (2004-2003)

377	Sensitive detection of plastic explosives with self-assembled monolayer-coated microcantilevers. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1471-1473	3.4	162
376	A coupling for success: Controlled growth of Co/CoOx nanoshoots on perovskite mesoporous nanofibres as high-performance trifunctional electrocatalysts in alkaline condition. <i>Nano Energy</i> , <b>2017</b> , 32, 247-254	17.1	153
375	Explosives: a microsensor for trinitrotoluene vapour. <i>Nature</i> , <b>2003</b> , 425, 474	50.4	153
374	Direct-current triboelectricity generation by a sliding Schottky nanocontact on MoS multilayers. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 112-116	28.7	146
373	Cantilever Sensors: Nanomechanical Tools for Diagnostics. MRS Bulletin, 2009, 34, 449-454	3.2	143
372	Viscous drag measurements utilizing microfabricated cantilevers. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 3814	1-33,816	140
371	Nerve agents detection using a Cu2+/L-cysteine bilayer-coated microcantilever. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1124-5	16.4	138
370	Imaging nanoparticles in cells by nanomechanical holography. <i>Nature Nanotechnology</i> , <b>2008</b> , 3, 501-5	28.7	133
369	Nanocrystalline ruthenium oxide dispersed Few Layered Graphene (FLG) nanoflakes as supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14944		119
368	Thin film composite polyamide membranes: parametric study on the influence of synthesis conditions. <i>RSC Advances</i> , <b>2015</b> , 5, 54985-54997	3.7	111
367	Micromechanical sensors for chemical and physical measurements. <i>Review of Scientific Instruments</i> , <b>1995</b> , 66, 3662-3667	1.7	108
366	Carbonized nanocellulose sustainably boosts the performance of activated carbon in ionic liquid supercapacitors. <i>Nano Energy</i> , <b>2016</b> , 25, 161-169	17.1	104
365	Stretched DNA structures observed with atomic force microscopy. <i>Nucleic Acids Research</i> , <b>1994</b> , 22, 422	<b>4:8</b> .1	100
364	Microfluidic cantilever detects bacteria and measures their susceptibility to antibiotics in small confined volumes. <i>Nature Communications</i> , <b>2016</b> , 7, 12947	17.4	99
363	High performance triboelectric nanogenerators based on phase-inversion piezoelectric membranes of poly(vinylidene fluoride)-zinc stannate (PVDF-ZnSnO3) and polyamide-6 (PA6). <i>Nano Energy</i> , <b>2016</b> , 30, 470-480	17.1	97
362	A novel self-assembled monolayer (SAM) coated microcantilever for low level caesium detection. <i>Chemical Communications</i> , <b>2000</b> , 457-458	5.8	97
361	Robust fabrication of thin film polyamide-TiO nanocomposite membranes with enhanced thermal stability and anti-biofouling propensity. <i>Scientific Reports</i> , <b>2018</b> , 8, 784	4.9	96
360	Detection of 2,4-dinitrotoluene using microcantilever sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 99, 223-229	8.5	96

359	Detection of CrO4(2-) using a hydrogel swelling microcantilever sensor. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4773-7	7.8	96
358	Friction effects in the deflection of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , <b>1994</b> , 65, 394-399	1.7	96
357	Investigation of adsorption and absorption-induced stresses using microcantilever sensors. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 427-431	2.5	95
356	New modes for subsurface atomic force microscopy through nanomechanical coupling. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 105-9	28.7	94
355	Polypyrrole-Doped Conductive Supramolecular Elastomer with Stretchability, Rapid Self-Healing, and Adhesive Property for Flexible Electronic Sensors. <i>ACS Applied Materials &amp; Description</i> , 11, 18720-18729	9.5	91
354	Design & fabrication of cantilever array biosensors. <i>Materials Today</i> , <b>2009</b> , 12, 32-38	21.8	86
353	Nanolithography on semiconductor surfaces under an etching solution. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 270-272	3.4	85
352	Fabrication of antifouling and antibacterial polyethersulfone (PES)/cellulose nanocrystals (CNC) nanocomposite membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 549, 350-356	9.6	84
351	Microcantilever biosensors for chemicals and bioorganisms. <i>Analyst, The</i> , <b>2011</b> , 136, 1539-56	5	84
350	Glucose biosensing using an enzyme-coated microcantilever. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 385-387	3.4	84
349	Detection of Hg2+ using microcantilever sensors. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 3611-5	7.8	83
348	Ultrasensitive detection of CrO4(2-) using a microcantilever sensor. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1572	<b>2-6</b> .8	83
347	Degradable thermoresponsive nanogels for protein encapsulation and controlled release. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 75-83	6.3	81
346	Measurement of Mechanical Properties of Cantilever Shaped Materials. <i>Sensors</i> , <b>2008</b> , 8, 3497-3541	3.8	81
345	Pulsed Laser Deposited Dysprosium-Doped Gadolinium-Vanadate Thin Films for Noncontact, Self-Referencing Luminescence Thermometry. <i>Advanced Materials</i> , <b>2016</b> , 28, 7745-52	24	79
344	Critical issues in sensor science to aid food and water safety. ACS Nano, 2012, 6, 4548-56	16.7	79
343	Detection of heavy metal ions using protein-functionalized microcantilever sensors. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 19, 411-6	11.8	79
342	Mercury vapor detection with a self-sensing, resonating piezoelectric cantilever. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 4899-4901	1.7	79

#### (1995-2002)

341	Determination of adsorption-induced variation in the spring constant of a microcantilever. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2219-2221	3.4	78	
340	Detection of trinitrotoluene via deflagration on a microcantilever. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 5871-5875	2.5	77	
339	Standoff spectroscopy of surface adsorbed chemicals. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1952-6	7.8	76	
338	Standoff photoacoustic spectroscopy. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 234102	3.4	76	
337	STM and AFM images of nucleosome DNA under water. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1989</b> , 7, 279-87	3.6	76	
336	Sustained drug release and antibacterial activity of ampicillin incorporated poly(methyl methacrylate) flylon6 core/shell nanofibers. <i>Polymer</i> , <b>2013</b> , 54, 2699-2705	3.9	74	
335	Microfluidic manipulation via Marangoni forces. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4237-4239	3.4	73	
334	Effects of temperature and pressure on microcantilever resonance response. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 119-26	3.1	72	
333	Impedimetric detection of pathogenic Gram-positive bacteria using an antimicrobial peptide from class IIa bacteriocins. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1693-700	7.8	70	
332	Trace explosive detection using photothermal deflection spectroscopy. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 094906	2.5	70	
331	Simulation of adsorption-induced stress of a microcantilever sensor. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 043526	2.5	70	
330	Detection of pH variation using modified microcantilever sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 72, 233-238	8.5	69	
329	Sustained electron tunneling at unbiased metal-insulator-semiconductor triboelectric contacts. <i>Nano Energy,</i> <b>2018</b> , 48, 320-326	17.1	68	
328	Glucose-responsive polymer brushes for microcantilever sensing. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3391		68	
327	Synthesis of selenium nanoparticle and its photocatalytic application for decolorization of methylene blue under UV irradiation. <i>Langmuir</i> , <b>2004</b> , 20, 7880-3	4	68	
326	Manipulation and controlled amplification of Brownian motion of microcantilever sensors. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1637-1639	3.4	68	
325	A parametric study on the synergistic impacts of chemical additives on permeation properties of thin film composite polyamide membrane. <i>Journal of Membrane Science</i> , <b>2017</b> , 535, 248-257	9.6	66	
324	Harmonic response of near-contact scanning force microscopy. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 14	652.15469	9 65	

323	A web of streamers: biofilm formation in a porous microfluidic device. Lab on A Chip, 2012, 12, 5133-7	7.2	62
322	Bioelectromechanical imaging by scanning probe microscopy: Galvani's experiment at the nanoscale. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 334-40	3.1	62
321	Observation of dipolar emission patterns from isolated Eu3+:Y2O3 doped nanocrystals: new evidence for single ion luminescence. <i>Chemical Physics Letters</i> , <b>2002</b> , 358, 459-465	2.5	62
320	Nanomechanical sandwich assay for multiple cancer biomarkers in breast cancer cell-derived exosomes. <i>Nanoscale</i> , <b>2016</b> , 8, 15137-41	7.7	62
319	Microwave ring resonator-based non-contact interface sensor for oil sands applications. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 224, 632-639	8.5	61
318	In situ detection of calcium ions with chemically modified microcantilevers. <i>Biosensors and Bioelectronics</i> , <b>2002</b> , 17, 337-43	11.8	60
317	Atomic force microscope investigation of C60 adsorbed on silicon and mica. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 891-893	3.4	60
316	Real-time Detection of Breast Cancer Cells Using Peptide-functionalized Microcantilever Arrays. <i>Scientific Reports</i> , <b>2015</b> , 5, 13967	4.9	58
315	Injectable Self-Healing Zwitterionic Hydrogels Based on Dynamic Benzoxaborole-Sugar Interactions with Tunable Mechanical Properties. <i>Biomacromolecules</i> , <b>2018</b> , 19, 596-605	6.9	57
314	Direct atomic force microscope imaging of EcoRI endonuclease site specifically bound to plasmid DNA molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 8826-9	11.5	55
313	Characterization of atomic force microscope tips by adhesion force measurements. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 2150-2152	3.4	54
312	Developing high throughput thin film composite polyamide membranes for forward osmosis treatment of SAGD produced water. <i>Journal of Membrane Science</i> , <b>2016</b> , 511, 29-39	9.6	54
311	Moore's law in homeland defense: an integrated sensor platform based on silicon microcantilevers. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 774-785	4	53
310	Universal spin-momentum locked optical forces. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 061102	3.4	53
309	The detection of Escherichia coli (E. coli) with the pH sensitive hydrogel nanofiber-light addressable potentiometric sensor (NF-LAPS). <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 226, 176-183	8.5	52
308	Optical modulation processes in thin films based on thermal effects of surface plasmons. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 154101	3.4	52
307	Detection of Volatile Organic Compounds Using Microwave Sensors. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 248	3-2/54	51
306	Knudsen forces on microcantilevers. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 6326-6333	2.5	51

## (2008-2015)

305	High resolution microwave microstrip resonator for sensing applications. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 233, 224-230	3.9	50
304	A sensitive, handheld vapor sensor based on microcantilevers. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 4554-4557	1.7	50
303	Anomalous interfacial stress generation during sodium intercalation/extraction in MoS thin-film anodes. <i>Science Advances</i> , <b>2019</b> , 5, eaav2820	14.3	50
302	Elastic phase response of silica nanoparticles buried in soft matter. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 133113	3.4	49
301	Detection of femtomolar concentrations of HF Using an SiO(2) microcantilever. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 2478-81	7.8	49
300	Synthesis of thin film composite polyamide membranes: Effect of monohydric and polyhydric alcohol additives in aqueous solution. <i>Journal of Membrane Science</i> , <b>2017</b> , 523, 336-345	9.6	48
299	Photothermal spectroscopy of Bacillus anthracis and Bacillus cereus with microcantilevers. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 206-211	8.5	46
298	Adsorption-desorption characteristics of explosive vapors investigated with microcantilevers. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 433-9	3.1	46
297	Interfacial friction-induced electronic excitation mechanism for tribo-tunneling current generation. <i>Materials Horizons</i> , <b>2019</b> , 6, 1020-1026	14.4	46
296	Metabolic Study of Cancer Cells Using a pH Sensitive Hydrogel Nanofiber Light Addressable Potentiometric Sensor. <i>ACS Sensors</i> , <b>2017</b> , 2, 151-156	9.2	45
295	Oriented Nanostructures from Single Molecules of a Semiconducting Polymer: Polarization Evidence for Highly Aligned Intramolecular Geometries. <i>Nano Letters</i> , <b>2003</b> , 3, 603-607	11.5	45
294	A rational design for enhanced oxygen reduction: Strongly coupled silver nanoparticles and engineered perovskite nanofibers. <i>Nano Energy</i> , <b>2017</b> , 38, 392-400	17.1	44
293	Portable Nanofiber-Light Addressable Potentiometric Sensor for Rapid Escherichia coli Detection in Orange Juice. <i>ACS Sensors</i> , <b>2018</b> , 3, 815-822	9.2	44
292	Surface enhanced strong visible photoluminescence from one-dimensional multiferroic BiFeO3 nanostructures. <i>Surface Science</i> , <b>2012</b> , 606, L83-L86	1.8	44
291	Multi-Walled Carbon Nanotubes Decorated with Silver Nanoparticles for Acetone Gas Sensing at Room Temperature. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 167519	3.9	44
290	Freestanding hierarchical porous carbon film derived from hybrid nanocellulose for high-power supercapacitors. <i>Nano Research</i> , <b>2017</b> , 10, 1847-1860	10	43
289	Label-free sugar detection using phenylboronic acid-functionalized piezoresistive microcantilevers. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 4860-5	7.8	42
288	Standoff detection of explosive residues using photothermal microcantilevers. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 134102	3.4	41

287	Adsorption of trinitrotoluene on uncoated silicon microcantilever surfaces. <i>Langmuir</i> , <b>2004</b> , 20, 2690-4	4	41
286	Mapping individual cosmid DNAs by direct AFM imaging. <i>Genomics</i> , <b>1997</b> , 41, 379-84	4.3	40
285	Effect of annealing atmosphere on microstructural and photoluminescence characteristics of multiferroic BiFeO3 thin films prepared by pulsed laser deposition technique. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 110, 903-907	2.6	39
284	Effect of nanometer surface morphology on surface stress and adsorption kinetics of alkanethiol self-assembled monolayers. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 795-9	3.1	38
283	Nanocatalytic Spontaneous Ignition and Self-Supporting Room-Temperature Combustion. <i>Energy &amp; Energy Energy Energy Energy (Sels)</i> , 19, 855-858	4.1	37
282	Chemisorption of bromine on cleaved silicon (111) surfaces: An X-ray standing wave interference spectrometric analysis. <i>Surface Science</i> , <b>1985</b> , 163, 457-477	1.8	37
281	Nanomechanical Effect of Enzymatic Manipulation of DNA on Microcantilever Surfaces. <i>Langmuir</i> , <b>2002</b> , 18, 8732-8736	4	36
280	Photocatalytic BiFeO3Nanofibrous Mats for Effective Water Treatment. <i>Journal of Nanotechnology</i> , <b>2013</b> , 2013, 1-6	3.5	35
279	Desorption characteristics of uncoated silicon microcantilever surfaces for explosive and common nonexplosive vapors. <i>Ultramicroscopy</i> , <b>2004</b> , 100, 211-6	3.1	35
278	Flexible Ultraviolet Photodetectors Based on One-Dimensional Gallium-Doped Zinc Oxide Nanostructures. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 3522-3529	4	35
277	Hollow Microtube Resonators via Silicon Self-Assembly toward Subattogram Mass Sensing Applications. <i>Nano Letters</i> , <b>2016</b> , 16, 1537-45	11.5	34
276	Surface-conjugated antimicrobial peptide leucocin a displays high binding to pathogenic gram-positive bacteria. <i>ACS Applied Materials &amp; Displays interfaces</i> , <b>2014</b> , 6, 1131-8	9.5	34
276 275		9.5 7.4	34
	gram-positive bacteria. ACS Applied Materials & amp; Interfaces, <b>2014</b> , 6, 1131-8		34
275	gram-positive bacteria. <i>ACS Applied Materials &amp; Description of Femtoscale displacement for Photoacoustic Spectroscopy. Nature</i>	7.4	34
<sup>2</sup> 75	gram-positive bacteria. ACS Applied Materials & Step Instabilities: A New Kinetic Route to 3D Growth. Physical Review Letters, 1995, 75, 1582-1585  Piezotransistive transduction of femtoscale displacement for photoacoustic spectroscopy. Nature Communications, 2015, 6, 7885	7·4 17·4	34
<sup>275</sup> <sup>274</sup> <sup>273</sup>	gram-positive bacteria. <i>ACS Applied Materials &amp; Discording Step Instabilities: A New Kinetic Route to 3D Growth. Physical Review Letters</i> , <b>1995</b> , 75, 1582-1585  Piezotransistive transduction of femtoscale displacement for photoacoustic spectroscopy. <i>Nature Communications</i> , <b>2015</b> , 6, 7885  Observation of Knudsen effect with microcantilevers. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 401-6  Size-correlated spectroscopy and imaging of rare-earth-doped nanocrystals. <i>Applied Optics</i> , <b>2003</b> ,	7.4 17.4 3.1	34 33 33

269	Detection of Cd(II) using antibody-modified microcantilever sensors. <i>Ultramicroscopy</i> , <b>2007</b> , 107, 1123-	8 3.1	32	
268	Effect of chain length on nanomechanics of alkanethiol self-assembly. <i>Nanotechnology</i> , <b>2007</b> , 18, 4240.	28,.4	32	
267	Observation of the surface stress induced in microcantilevers by electrochemical redox processes. <i>Ultramicroscopy</i> , <b>2004</b> , 100, 217-23	3.1	32	
266	AFM and RHEED study of Ge islanding on Si(111) and Si(100). <i>Applied Surface Science</i> , <b>1996</b> , 104-105, 510-515	6.7	32	
265	Separation and Quantum Tunneling of Photo-generated Carriers Using a Tribo-Induced Field. <i>Matter</i> , <b>2019</b> , 1, 650-660	12.7	31	
264	Dynamic microcantilever sensors for discerning biomolecular interactions. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 1601-6	7.8	31	
263	Marangoni forces created by surface plasmon decay. <i>Optics Letters</i> , <b>2005</b> , 30, 616-8	3	31	
262	Use of Microcantilevers for the Monitoring of Molecular Binding to Self-Assembled Monolayers. <i>Langmuir</i> , <b>2003</b> , 19, 7841-7844	4	31	
261	Investigating the Mechanical Effects of Adsorption of Ca2+ Ions on a Silicon Nitride Microcantilever Surface. <i>Langmuir</i> , <b>2002</b> , 18, 6935-6939	4	31	
<b>2</b> 60	Electrical, spectroscopic, and morphological investigation of chromium diffusion through gold films. <i>Thin Solid Films</i> , <b>1990</b> , 189, 59-72	2.2	31	
259	Bacterial floc mediated rapid streamer formation in creeping flows. <i>Scientific Reports</i> , <b>2015</b> , 5, 13070	4.9	30	
258	Micro-differential thermal analysis detection of adsorbed explosive molecules using microfabricated bridges. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 035102	1.7	30	
257	Pumpprobe photothermal spectroscopy using quantum cascade lasers. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 125101	3	30	
256	Effect of normal vibration on friction in the atomic force microscopy experiment. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 214102	3.4	30	
255	Molecular recognition of biowarfare agents using micromechanical sensors. <i>Expert Review of Molecular Diagnostics</i> , <b>2004</b> , 4, 859-66	3.8	30	
254	Flocculation and Dewatering of Mature Fine Tailings Using Temperature-Responsive Cationic Polymers. <i>Langmuir</i> , <b>2017</b> , 33, 5900-5909	4	29	
253	Core cross-linked double hydrophilic block copolymer micelles based on multiple hydrogen-bonding interactions. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 3066-3073	4.9	29	
252	Atomic force microscopy of silica nanoparticles and carbon nanohorns in macrophages and red blood cells. <i>Ultramicroscopy</i> , <b>2010</b> , 110, 586-91	3.1	29	

251	Modulation of multiple photon energies by use of surface plasmons. <i>Optics Letters</i> , <b>2005</b> , 30, 41-3	3	29
250	Modal analysis of microcantilever sensors with environmental damping. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 084902	2.5	29
249	Instant curvature measurement for microcantilever sensors. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1083-1084	43.4	29
248	Discerning Biomolecular Interactions Using Kelvin Probe Technology. <i>Langmuir</i> , <b>2003</b> , 19, 7514-7520	4	29
247	Rapid and Highly Sensitive Detection of Dopamine Using Conjugated Oxaborole-Based Polymer and Glycopolymer Systems. <i>ACS Applied Materials &amp; Dopamine Using Conjugated Oxaborole-Based Polymer and Glycopolymer Systems</i> .	9.5	28
246	Electrochemical and oxygen reduction properties of pristine and nitrogen-doped few layered graphene nanoflakes (FLGs). <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 2139-2149	2.6	28
245	Direct detection and speciation of trace explosives using a nanoporous multifunctional microcantilever. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5077-82	7.8	27
244	Single-contact transmission for the quasi-wireless delivery of power over large surfaces. <i>Wireless Power Transfer</i> , <b>2014</b> , 1, 75-82	0.9	27
243	Peptide-bacteria interactions using engineered surface-immobilized peptides from class IIa bacteriocins. <i>Langmuir</i> , <b>2013</b> , 29, 4048-56	4	27
242	Nanomechanics of a self-assembled monolayer on microcantilever sensors measured by a multiple-point deflection technique. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 365-368	8.5	27
241	Effect of thermal variations on the Knudsen forces in the transitional regime. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1013-1015	3.4	26
240	Scaled-up Direct-Current Generation in MoS Multilayer-Based Moving Heterojunctions. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2019</b> , 11, 35404-35409	9.5	25
239	Opto-nanomechanical spectroscopic material characterization. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 870-7	28.7	25
238	Mapping and Quantifying Surface Charges on Clay Nanoparticles. <i>Langmuir</i> , <b>2015</b> , 31, 10469-76	4	25
237	Effect of temperature on morphologies of evaporation-triggered asphaltene nanoaggregates. <i>Langmuir</i> , <b>2014</b> , 30, 800-4	4	25
236	Standoff reflection bosorption spectra of surface adsorbed explosives measured with pulsed quantum cascade lasers. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 191, 450-456	8.5	25
235	Effect of process parameters on phase stability and metal-insulator transition of vanadium dioxide (VO2) thin films by pulsed laser deposition. <i>Acta Materialia</i> , <b>2017</b> , 137, 12-21	8.4	25
234	Surface dominant photoresponse of multiferroic BiFeO3 nanowires under sub-bandgap illumination. <i>Nanotechnology</i> , <b>2013</b> , 24, 505710	3.4	25

233	Virtual resonance and frequency difference generation by van der Waals interaction. <i>Physical Review Letters</i> , <b>2011</b> , 106, 180801	7.4	25
232	Spectroscopy and atomic force microscopy of biomass. <i>Ultramicroscopy</i> , <b>2010</b> , 110, 701-7	3.1	25
231	Enhanced photo-collection in single BiFeO3 nanowire due to carrier separation from radial surface field. <i>Nano Energy</i> , <b>2015</b> , 13, 240-248	17.1	24
230	Vibtrational energy harvesting using photo-patternable piezoelectric nanocomposite cantilevers. <i>Nano Energy</i> , <b>2013</b> , 2, 923-932	17.1	24
229	Effects of gold patterning on the bending profile and frequency response of a microcantilever. Journal of Applied Physics, <b>2009</b> , 106, 024310	2.5	24
228	Fluidic applications for atomic force microscopy (AFM) with microcantilever sensors. <i>Experiments in Fluids</i> , <b>2010</b> , 48, 721-736	2.5	24
227	Electrochemical deposition of molecular adsorbates for in situ scanning probe microscopy. <i>Ultramicroscopy</i> , <b>1990</b> , 33, 107-16	3.1	24
226	Tribo-Tunneling DC Generator with Carbon Aerogel/Silicon Multi-Nanocontacts. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900464	6.4	23
225	Dynamics of bacterial streamers induced clogging in microfluidic devices. <i>Lab on A Chip</i> , <b>2016</b> , 16, 4091	-4 <b>02</b> 6	23
224	Effect of interface on mid-infrared photothermal response of MoS2 thin film grown by pulsed laser deposition. <i>Nano Research</i> , <b>2017</b> , 10, 3571-3584	10	23
223	Nanopowder molding method for creating implantable high-aspect-ratio electrodes on thin flexible substrates. <i>Biomaterials</i> , <b>2006</b> , 27, 2009-17	15.6	23
222	Gas sensing using electrostatic force potentiometry. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 173105	3.4	23
221	A piezoresistive microcantilever array for surface stress measurement: curvature model and fabrication. <i>Journal of Micromechanics and Microengineering</i> , <b>2007</b> , 17, 2065-2076	2	23
220	Photochemical hydrosilylation of 11-undecenyltriethylammonium bromide with hydrogen-terminated Si surfaces for the development of robust microcantilever sensors for Cr(VI). <i>Langmuir</i> , <b>2005</b> , 21, 1139-42	4	23
219	Calibration of optical cantilever deflection readers. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 400-404	1.7	23
218	Photon-driven nanomechanical cyclic motion. <i>Chemical Communications</i> , <b>2004</b> , 2532-3	5.8	23
217	Sequence, packing and nanometer scale structure in STM images of nucleic acids under water. Journal of Biomolecular Structure and Dynamics, <b>1989</b> , 7, 289-99	3.6	23
216	Carbon fiber doped thermosetting elastomer for flexible sensors: physical properties and microfabrication. <i>Scientific Reports</i> , <b>2018</b> , 8, 12313	4.9	22

215	Detection of adsorbed explosive molecules using thermal response of suspended microfabricated bridges. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 154102	3.4	22
214	Localized heating of nickel nitride/aluminum nitride nanocomposite films for data storage. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 3034-3036	3.4	22
213	Detection of Listeria monocytogenes with short peptide fragments from class IIa bacteriocins as recognition elements. <i>ACS Combinatorial Science</i> , <b>2015</b> , 17, 156-63	3.9	21
212	Microcantilever (MCL) Biosensing. Current Analytical Chemistry, 2006, 2, 297-307	1.7	21
211	Torsional spring constant obtained for an atomic force microscope cantilever. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1795-1797	3.4	21
210	Manipulation of microcantilever oscillations. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 391-9	3.1	21
209	Polymer-Mediated Assembly of Gold Nanoclusters. <i>Langmuir</i> , <b>2000</b> , 16, 9151-9154	4	21
208	Nanomechanical identification of liquid reagents in a microfluidic channel. <i>Lab on A Chip</i> , <b>2014</b> , 14, 130	2 <i>-7</i> .2	20
207	Activation process of reversible Pd thin film hydrogen sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 186, 258-262	8.5	20
206	Probing large area surface plasmon interference in thin metal films using photon scanning tunneling microscopy. <i>Ultramicroscopy</i> , <b>2004</b> , 100, 429-36	3.1	20
205	Piezoelectric self-sensing of adsorption-induced microcantilever bending. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 121, 457-461	3.9	20
204	Measuring magnetic susceptibilities of nanogram quantities of materials using microcantilevers. <i>Ultramicroscopy</i> , <b>2001</b> , 86, 175-80	3.1	20
203	2014,		19
202	Plasmon assisted thermal modulation in nanoparticles. <i>Optics Express</i> , <b>2013</b> , 21, 12145-58	3.3	19
201	Covalent attachment of gold nanoparticles to DNA templates. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2002</b> , 2, 397-404	1.3	19
200	Monitoring chemical and physical changes on sub-nanogram quantities of platinum dioxide. <i>Surface Science</i> , <b>1999</b> , 430, L546-L552	1.8	19
199	Investigation of mercury adsorption on gold films by STM. <i>Journal of Microscopy</i> , <b>1988</b> , 152, 703-713	1.9	19
198	Analytical model for zeta potential of asphaltene. <i>Fuel</i> , <b>2013</b> , 108, 543-549	7.1	18

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197	Quartz crystal tuning fork photoacoustic point sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 150, 402-405	8.5	18
196	Surface plasmon assisted thermal coupling of multiple photon energies. <i>Thin Solid Films</i> , <b>2006</b> , 497, 315	-320	18
195	A general microcantilever surface modification method using a multilayer for biospecific recognition. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 460-2	3.9	18
194	Analysis of amplification of thermal vibrations of a microcantilever. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 4587-4591	2.5	18
193	Dynamics of self-driven microcantilevers. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 4693-4700	2.5	18
192	Hydrogen Sensing at Room Temperature Using Flame-Synthesized Palladium-Decorated Crumpled Reduced Graphene Oxide Nanocomposites. <i>ACS Sensors</i> , <b>2020</b> , 5, 2344-2350	9.2	18
191	Determination of charge on asphaltene nanoaggregates in air using electrostatic force microscopy. <i>Langmuir</i> , <b>2015</b> , 31, 679-84	4	17
190	Investigation of pH-induced protein conformation changes by nanomechanical deflection. <i>Langmuir</i> , <b>2014</b> , 30, 2109-16	4	17
189	Observation of an anomalous mass effect in microcantilever-based biosensing caused by adsorbed DNA. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 153703	3.4	17
188	Microscale Marangoni actuation: all-optical and all-electrical methods. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 815-2	23.1	17
187	Influence of nanobubbles on the bending of microcantilevers. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 103118	3.4	17
186	1,6-Hexanedithiol monolayer as a receptor for specific recognition of alkylmercury. <i>Analyst, The</i> , <b>2005</b> , 130, 1577-9	5	17
185	Microcantilever charged-particle flux detector. Review of Scientific Instruments, 2002, 73, 36-41	1.7	17
184	Rapid label-free detection of E. coli using antimicrobial peptide assisted impedance spectroscopy. <i>Analytical Methods</i> , <b>2015</b> , 7, 9744-9748	3.2	16
183	Selective detection of physisorbed hydrocarbons using photothermal cantilever deflection spectroscopy. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 191, 765-769	8.5	16
182	In situ study of electric field-induced magnetization in multiferroic BiFeO(3) nanowires. <i>Scanning</i> , <b>2014</b> , 36, 224-30	1.6	16
181	Photon tunneling via surface plasmon coupling. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3420-3422	3.4	16
180	Detection of Organophosphates Using an Acetyl Cholinesterase (AChE) Coated Microcantilever. <i>Instrumentation Science and Technology</i> , <b>2004</b> , 32, 175-183	1.4	16

179	Photothermal Cantilever Deflection Spectroscopy. <i>Electrochemical Society Interface</i> , <b>2019</b> , 28, 55-57	3.6	16
178	Thermal graphene metamaterials and epsilon-near-zero high temperature plasmonics. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 055101	1.7	15
177	Spatially resolved organic coating on clay minerals in bitumen froth revealed by atomic force microscopy adhesion mapping. <i>Fuel</i> , <b>2017</b> , 191, 283-289	7.1	15
176	Optical thin-film interference effects in microcantilevers. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 1162-116	5 <b>5</b> 2.5	15
175	Piezoresistive detection of acoustic waves. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 1031-1035	1.7	15
174	Smooth polycrystalline ceramic substrates with enhanced metal adhesion by pulsed excimer laser processing. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 1791-1793	3.4	15
173	Nanophotonic enhancement and improved electron extraction in perovskite solar cells using near-horizontally aligned TiO2 nanorods. <i>Journal of Power Sources</i> , <b>2019</b> , 417, 176-187	8.9	14
172	Photothermal Electrical Resonance Spectroscopy of Physisorbed Molecules on a Nanowire Resonator. <i>Nano Letters</i> , <b>2015</b> , 15, 5658-63	11.5	14
171	Investigating fouling at the pore-scale using a microfluidic membrane mimic filtration system. <i>Scientific Reports</i> , <b>2019</b> , 9, 10587	4.9	14
170	Suspended polymer nanobridge on a quartz resonator. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 053109	3.4	14
169	Cross talk between bending, twisting, and buckling modes of three types of microcantilever sensors. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 4841-4844	1.7	14
168	Tip-bias induced surface modification on gold surfaces. <i>Journal of Microscopy</i> , <b>1988</b> , 152, 145-147	1.9	14
167	Appearance of SERS activity in single silver nanoparticles by laser-induced reshaping. <i>Nanoscale</i> , <b>2018</b> , 11, 321-330	7.7	13
166	Dynamic and Static Manifestation of Molecular Absorption in Thin Films Probed by a Microcantilever. <i>Physical Review Applied</i> , <b>2014</b> , 1,	4.3	13
165	Femtogram-scale photothermal spectroscopy of explosive molecules on nanostrings. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11368-72	7.8	13
164	Nanomechanical Thermal Analysis of Photosensitive Polymers. <i>Macromolecules</i> , <b>2011</b> , 44, 9661-9665	5.5	13
163	Growth mechanisms and defects in boronated CVD diamond as identified by scanning tunneling microscopy. <i>Physical Review B</i> , <b>1995</b> , 51, 14554-14558	3.3	13
162	Abiotic streamers in a microfluidic system. <i>Soft Matter</i> , <b>2017</b> , 13, 8698-8705	3.6	12

161	Photothermal cantilever deflection spectroscopy. <i>EPJ Techniques and Instrumentation</i> , <b>2014</b> , 1,	1.8	12
160	Ultra violet decomposition of surface adsorbed explosives investigated with infrared standoff spectroscopy. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 161, 961-966	8.5	12
159	Directed self-assembly of proteins into discrete radial patterns. Scientific Reports, 2013, 3, 1923	4.9	12
158	Nanometrology of delignified Populus using mode synthesizing atomic force microscopy. <i>Nanotechnology</i> , <b>2011</b> , 22, 465702	3.4	12
157	Atomic layer-by-layer surface removal by force microscopy. Surface Science, 1993, 293, L863-L869	1.8	12
156	The role of chloride ions in plasma-activated water treatment processes. <i>Environmental Science:</i> Water Research and Technology, <b>2017</b> , 3, 156-168	4.2	11
155	Methane sensing at room temperature using photothermal cantilever deflection spectroscopy. Sensors and Actuators B: Chemical, 2015, 221, 564-569	8.5	11
154	Electronic Nose for Recognition of Volatile Vapor Mixtures Using a Nanopore-Enhanced Opto-Calorimetric Spectroscopy. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 7125-32	7.8	11
153	Effect of Steam-Assisted Gravity Drainage Produced Water Properties on Oil/Water Transient Interfacial Tension. <i>Energy &amp; Discourse (Mater Transient Steels)</i> 10714-10720	4.1	11
152	Optically directed molecular transport and 3D isoelectric positioning of amphoteric biomolecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 6436-41	11.5	11
151	Heat capacity measurements of sub-nanoliter volumes of liquids using bimaterial microchannel cantilevers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 211906	3.4	11
150	Standoff Mechanical Resonance Spectroscopy Based on Infrared-Sensitive Hydrogel Microcantilevers. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9678-9684	7.8	11
149	Sample Preparation in Centrifugal Microfluidic Discs for Human Serum Metabolite Analysis by Surface Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7570-7	7377	10
148	The effect of oxygen flow rate on metallhsulator transition (MIT) characteristics of vanadium dioxide (VO2) thin films by pulsed laser deposition (PLD). <i>Applied Surface Science</i> , <b>2020</b> , 529, 146995	6.7	10
147	Hybrid micromolding of silver micro fiber doped electrically conductive elastomeric composite polymer for flexible sensors and electronic devices. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 4159-4164	1.7	10
146	Modulus-tunable magnetorheological elastomer microcantilevers. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 055017	3.4	10
145	The effect of applied electric field on the diameter and size distribution of electrospun Nylon6 nanofibers. <i>Scanning</i> , <b>2013</b> , 35, 183-8	1.6	10
144	Multi-modal characterization of nanogram amounts of a photosensitive polymer. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 024103	3.4	10

143	Standoff imaging of chemicals using IR spectroscopy <b>2011</b> ,		10
142	Effective mass and flow patterns of fluids surrounding microcantilevers. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 789-94	3.1	10
141	Assembly of Gold Nanoclusters on Silicon Surfaces. <i>Langmuir</i> , <b>2002</b> , 18, 2392-2397	4	10
140	Nanocantilever signal transduction by electron transfer. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2002</b> , 2, 369-73	1.3	10
139	Spin photonic forces in non-reciprocal waveguides. <i>Optics Express</i> , <b>2018</b> , 26, 23898-23910	3.3	10
138	Photoacoustic spectroscopy of surface adsorbed molecules using a nanostructured coupled resonator array. <i>Nanotechnology</i> , <b>2014</b> , 25, 035501	3.4	9
137	Piezoresistive cantilever array sensor for consolidated bioprocess monitoring. <i>Scanning</i> , <b>2009</b> , 31, 204-	<b>1Q</b> .6	9
136	Locally enhanced relative humidity for scanning probe nanolithography. <i>Langmuir</i> , <b>2005</b> , 21, 10902-6	4	9
135	Opto-electronic versus electro-optic modulation. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2703-2705	3.4	9
134	Ultrasensitive Detection of Cu Using a Microcantilever Sensor Modified with L-Cysteine Self-Assembled Monolayer. <i>Applied Biochemistry and Biotechnology</i> , <b>2017</b> , 183, 555-565	3.2	8
133	Sensitive and selective detection of hydrocarbon/water vapor mixtures with a nanoporous silicon microcantilever. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 206, 84-89	8.5	8
132	Phase transformation induced modulation of the resonance frequency of VO2/TiO2 coated microcantilevers. <i>MRS Advances</i> , <b>2018</b> , 3, 359-364	0.7	8
131	Conduction and Dielectric Relaxation Mechanisms in Athabasca Oil Sands with Application to Electrical Heating. <i>Energy &amp; Energy &amp;</i>	4.1	8
130	Evaluation of efficiency factors and internal resistance of thermoelectric materials. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 198-206	4.5	8
129	Nanowell-patterned TiO2 microcantilevers for calorimetric chemical sensing. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 141903	3.4	8
128	Protocol for biofilm streamer formation in a microfluidic device with micro-pillars. <i>Journal of Visualized Experiments</i> , <b>2014</b> ,	1.6	8
127	Visible photothermal deflection spectroscopy using microcantilevers. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 169, 222-228	8.5	8
126	Photothermal cantilever deflection spectroscopy of a photosensitive polymer. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 204103	3.4	8

125	Optomechanical spectroscopy with broadband interferometric and quantum cascade laser sources. <i>Optics Letters</i> , <b>2011</b> , 36, 3251-3	3	8
124	Speciation of energetic materials on a microcantilever using surface reduction. <i>Scanning</i> , <b>2008</b> , 30, 208-	126	8
123	MEMS sensors and wireless telemetry for distributed systems 1998,		8
122	Experimental observations of a long-range surface mode in metal island films. <i>Physical Review B</i> , <b>1994</b> , 49, 7782-7785	3.3	8
121	Sharpness and intensity modulation of the metal-insulator transition in ultrathin VO2 films by interfacial structure manipulation. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	8
120	Detection of Hexavalent Chromium in Ground Water Using a Single Microcantilever Sensor. <i>Sensor Letters</i> , <b>2004</b> , 2, 25-30	0.9	8
119	Modified cantilever arrays improve sensitivity and reproducibility of nanomechanical sensing in living cells. <i>Communications Biology</i> , <b>2018</b> , 1, 175	6.7	8
118	Mechanistic Understanding and Nanomechanics of Multiple Hydrogen-Bonding Interactions in Aqueous Environment. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 4540-4548	3.8	7
117	Thermomechanical behavior of a bimaterial microchannel cantilever subjected to periodic IR radiation. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 235, 273-279	8.5	7
116	Rapid discrimination of DNA strands using an opto-calorimetric microcantilever sensor. <i>Lab on A Chip</i> , <b>2014</b> , 14, 4659-64	7.2	7
115	Evaporation dynamics of water droplets on superhydrophobic nanograss surfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 160, 120149	4.9	7
114	Hydrogel Microelectromechanical System (MEMS) Resonators: Beyond Cost-Effective Sensing Platform. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800597	6.8	7
113	Thermomechanical analysis of picograms of polymers using a suspended microchannel cantilever. <i>RSC Advances</i> , <b>2017</b> , 7, 8415-8420	3.7	6
112	Thermomechanical responses of microfluidic cantilever capture DNA melting and properties of DNA premelting states using picoliters of DNA solution. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 173703	3.4	6
111	In-situ probing of thermal desorption of vapor molecules on a nanowire via work function variance. <i>Nano Research</i> , <b>2016</b> , 9, 3334-3345	10	6
110	Effect of annealing conditions on structural and luminescencent properties of Eu3+-doped Gd2Ti2O7 thin films. <i>Applied Surface Science</i> , <b>2016</b> , 364, 273-279	6.7	6
109	Quasi-wireless surface power and control for battery-free robotics. <i>Wireless Power Transfer</i> , <b>2015</b> , 2, 134-142	0.9	6
108	Stripping voltammetry of Pb and Cu using a microcantilever electrode. Surface Science, 2009, 603, L125	-141827	6

107	Parametric energy conversion of thermoacoustic vibrations. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 203902	3.4	6
106	Vibration response of microcantilevers bounded by a confined fluid. <i>Ultramicroscopy</i> , <b>2007</b> , 107, 1105-1	03.1	6
105	Electromechanical identification of molecules adsorbed on microcantilevers. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 124, 143-146	8.5	6
104	Fluctuation and dissipation of a stochastic micro-oscillator under delayed feedback. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 114314	2.5	6
103	Surface morphology of epitaxial CaF2/Si(111) and its influence on subsequent GaAs epitaxy.  Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B,  Microelectronics Processing and Phenomena, 1995, 13, 670		6
102	Nanomechanical Thermal Analysis of Indium Films Using Silicon Microcantilevers. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 08KB07	1.4	6
101	Transparent and Flexible Thermal Insulation Window Material. Cell Reports Physical Science, 2020, 1, 100	0640	6
100	Electrical excitation of the local earth for resonant, wireless energy transfer. <i>Wireless Power Transfer</i> , <b>2016</b> , 3, 117-125	0.9	6
99	Strain-induced electrostatic enhancements of BiFeO3 nanowire loops. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 22772-7	3.6	6
98	Collapse of house-of-cards clay structures and corresponding tailings dewatering induced by alternating electric fields. <i>Drying Technology</i> , <b>2019</b> , 37, 1053-1067	2.6	6
97	Broadband Mid-Infrared Stand-Off Reflection-Absorption Spectroscopy Using a Pulsed External Cavity Quantum Cascade Laser. <i>Applied Spectroscopy</i> , <b>2017</b> , 71, 1494-1505	3.1	5
96	Wireless single contact power delivery <b>2015</b> ,		5
95	A nanostructured surface increases friction exponentially at the solid-gas interface. <i>Scientific Reports</i> , <b>2016</b> , 6, 32996	4.9	5
94	Magnetoelectric Coupling in NiMnIh/PLZT Artificial Multiferroic Heterostructure and Its Application in Mid-IR Photothermal Modulation by External Magnetic Field. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 2226-2235	4	5
93	Asphaltene migration and separation in presence of aggregation in electroosmoticelectrophoretic microchannel transport. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 446, 23-	3 <sup>2</sup> 1	5
92	Electrophoresis assisted time-of-flow mass spectrometry using hollow nanomechanical resonators. <i>Scientific Reports</i> , <b>2017</b> , 7, 3535	4.9	5
91	Applications of subsurface microscopy. <i>Methods in Molecular Biology</i> , <b>2012</b> , 926, 331-43	1.4	5
90	Modeling of Asphaltene Transport and Separation in the Presence of Finite Aggregation Effects in Pressure-Driven Microchannel Flow. <i>Energy &amp; Energy &amp; 2012</i> , 26, 5851-5857	4.1	5

# (2001-2011)

89	Optical and plasmonic spectroscopy with cantilever shaped materials. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 445102	3	5
88	Galvanic and Chemical Deposition of Bismuth Powders from Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, D587-D591	3.9	5
87	Mass Spectrometric Analysis of Water-soluble Gold Nanoclusters. <i>Journal of Nanoparticle Research</i> , <b>2002</b> , 4, 417-422	2.3	5
86	Electrostatic force density for a scanned probe above a charged surface. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 1011-1016	2.5	5
85	Polybutadiene emulsion particles observed by scanning tunneling microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1992</b> , 10, 623-626	2.9	5
84	Palladium Nanosheet-Based Dual Gas Sensors for Sensitive Room-Temperature Hydrogen and Carbon Monoxide Detection <i>ACS Sensors</i> , <b>2022</b> ,	9.2	5
83	Synthesis, characterization, and optical properties of AuSe nanoalloys. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 1832-9	1.3	5
82	Quasi-wireless capacitive energy transfer for the dynamic charging of personal mobility vehicles <b>2016</b> ,		5
81	Plasmonic absorbers with optical cavity for the enhancement of photothermal/opto-calorimetric infrared spectroscopy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 011901	3.4	4
80	Synthesis and Characterization of Zinc Phthalocyanine-Cellulose Nanocrystal (CNC) Conjugates: Toward Highly Functional CNCs. <i>ACS Applied Materials &amp; Emp; Interfaces</i> , <b>2020</b> , 12, 43992-44006	9.5	4
79	Photoluminescence of europium(III)-doped (Y Sc1)2O3 nanoparticles: Linear relationship between structural and emission properties. <i>Ceramics International</i> , <b>2016</b> , 42, 3899-3906	5.1	4
78	Transparent and highly luminescent dysprosium- doped GdVO4 thin films fabricated by pulsed laser deposition. <i>Thin Solid Films</i> , <b>2017</b> , 638, 332-337	2.2	4
77	Quarter wavelength resonators for use in wireless capacitive power transfer 2017,		4
76	Photothermal Cantilever Deflection Spectroscopy. ECS Transactions, 2013, 50, 459-464	1	4
75	Nanomechanical Thermal Analysis of Indium Films Using Silicon Microcantilevers. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 08KB07	1.4	4
74	Design and Testing of Single and Double Sided Cantilevers for Chemical Sensing 2007,		4
73	Novel Glucose Biosensor Based on the Microcantilever. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 776, 11211		4
72	Study of different hormone-sensitive lipase concentrations using a surface plasmon resonance sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 73, 192-198	8.5	4

71	Nanostrings of silver. <i>Journal of Materials Science Letters</i> , <b>1999</b> , 18, 1391-1394		4
70	Diffusion length of Ga adatoms on GaAs (1 1 1) surface in the 🗓 9 🗓 9 reconstruction growth regime. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 1641-1643	3.4	4
69	Microcantilevers for Physical, Chemical, and Biological Sensing <b>2003</b> , 337-355		4
68	ReviewNanomechanical Calorimetric Infrared Spectroscopy using Bi-Material Microfluidic Cantilevers. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 037504	3.9	4
67	Reduced Graphene Oxide-Wrapped Palladium Nanowires Coated with a Layer of Zeolitic Imidazolate Framework-8 for Hydrogen Sensing. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8081-8093	5.6	4
66	Fabrication of Phase Change Microstring Resonators via Top Down Lithographic Techniques: Incorporation of VO2/TiO2 Into Conventional Processes. <i>Journal of Microelectromechanical Systems</i> , <b>2019</b> , 28, 766-775	2.5	3
65	2017,		3
64	Detection of biological analytes using nanomechanical infrared spectroscopy with a nanoporous microcantilever <b>2013</b> ,		3
63	Xsense: a miniaturised multi-sensor platform for explosives detection 2011,		3
62	Highly selective separation of DNA fragments using optically directed transport. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 053701	3.4	3
61	Explosive Vapor Detection Using Microcantilever Sensors <b>2007</b> , 109-130		3
60	Spiral springs and microspiral springs for chemical and biological sensing. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 063504	3.4	3
59	An atomic force microscope-based investigation of vertical transport through GaAs/GaAlAs/InAlAs/GaAs step-barrier heterostructures. <i>Ultramicroscopy</i> , <b>2002</b> , 91, 133-8	3.1	3
58	Electrochemically deposited Ni on Ge(111) investigated with X-ray standing waves. <i>Surface Science</i> , <b>1990</b> , 230, 205-212	1.8	3
57	Surface State-Induced Anomalous Negative Thermal Quenching of Multiferroic BiFeO3 Nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1700352	2.5	3
56	Ultrathin Palladium Nanowires for Fast and Hysteresis-Free H2 Sensing. ACS Applied Nano Materials,	5.6	3
55	. IEEE Sensors Journal, <b>2017</b> , 17, 4773-4780	4	2
54	Resonant hair humidity sensors for disposable applications: Revisit the hair hygrometer. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 292, 1-6	8.5	2

53	Dielectric Relaxation-Based Capacitive Heating of Oil Sands. <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating of Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating of Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating of Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating of Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitic Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Dielectric Relaxation-Based Capacitive Heating Oil Sands</i> . <i>Energy &amp; Diel</i>	4.1	2
52	Electroless Deposition of Bismuth Containing Films on Copper and Silver Substrates from KBiI4 Solutions. <i>Electrochemical and Solid-State Letters</i> , <b>2012</b> , 15, D23		2
51	DNA separation on surfaces. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 033703	3.4	2
50	2010,		2
49	Room-Temperature Nanocatalytic Reaction Modeling and Its Applications in Direct Energy Conversion. <i>ECS Transactions</i> , <b>2009</b> , 16, 61-71	1	2
48	Laser reflectometry of submegahertz liquid meniscus ringing. <i>Optics Letters</i> , <b>2009</b> , 34, 3148-50	3	2
47	Environmental Monitoring Using Microcantilever Sensors. ACS Symposium Series, 2005, 284-305	0.4	2
46	Explosive Vapor Detection Using Microcantilever Sensors <b>2006</b> , 245-260		2
45	Explosive Vapour Detection Using Micromechanical Sensors. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , <b>2004</b> , 249-266		2
44	Enhanced nanoplasmonic heating in standoff sensing of explosive residues with infrared reflection-absorption spectroscopy. <i>Optics Letters</i> , <b>2020</b> , 45, 2144-2147	3	2
44		3	2
	reflection-absorption spectroscopy. <i>Optics Letters</i> , <b>2020</b> , 45, 2144-2147  Mapping the surface potential, charge density and adhesion of cellulose nanocrystals using		
43	reflection-absorption spectroscopy. <i>Optics Letters</i> , <b>2020</b> , 45, 2144-2147  Mapping the surface potential, charge density and adhesion of cellulose nanocrystals using advanced scanning probe microscopy. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116393  Communication Calvanic Deposition of Gold on Silicon from Au(I) Alkaline Fluoride-Free Solutions.	10.3	2
43	reflection-absorption spectroscopy. <i>Optics Letters</i> , <b>2020</b> , 45, 2144-2147  Mapping the surface potential, charge density and adhesion of cellulose nanocrystals using advanced scanning probe microscopy. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116393  Communication alvanic Deposition of Gold on Silicon from Au(I) Alkaline Fluoride-Free Solutions. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, D818-D820	10.3	2
43 42 41	mapping the surface potential, charge density and adhesion of cellulose nanocrystals using advanced scanning probe microscopy. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116393  Communication alvanic Deposition of Gold on Silicon from Au(I) Alkaline Fluoride-Free Solutions. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, D818-D820  Standoff infrared spectroscopy on energetic materials using hydrogel microcantilevers <b>2016</b> ,  Galvanic Processes on Silicon Surfaces in Cu(II) Alkaline Fluoride-Free Solutions. <i>Journal of the</i>	3.9	2 2 2
43 42 41 40	Mapping the surface potential, charge density and adhesion of cellulose nanocrystals using advanced scanning probe microscopy. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116393  Communication alvanic Deposition of Gold on Silicon from Au(I) Alkaline Fluoride-Free Solutions. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, D818-D820  Standoff infrared spectroscopy on energetic materials using hydrogel microcantilevers <b>2016</b> ,  Galvanic Processes on Silicon Surfaces in Cu(II) Alkaline Fluoride-Free Solutions. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, D651-D654  Optimal floc structure for effective dewatering of polymer treated oil sands tailings. <i>Minerals</i>	10.3 3.9 3.9	2 2 2
43 42 41 40 39	Mapping the surface potential, charge density and adhesion of cellulose nanocrystals using advanced scanning probe microscopy. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116393  Communication	3.9 3.9 4.9	2 2 2 2

35	Surface State-Induced Anomalous Negative Thermal Quenching of Multiferroic BiFeO3 Nanowires (Phys. Status Solidi RRL 1/2018). <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1870403	2.5	1
34	Exploiting broader dynamic range in Si-bridge modified QTFE for sensitive thermometric applications. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 279, 442-447	3.9	1
33	Microcantilever Sensors 2017,		1
32	Nonlinear Interaction Force Analysis of Microcantilevers Utilized in Atomic Force Microscopy 2009,		1
31	An experimental investigation of analog delay generation for dynamic control of microsensors and atomic force microscopy. <i>Ultramicroscopy</i> , <b>2007</b> , 107, 1020-6	3.1	1
30	Frictional Dynamics at the Atomic Scale in Presence of Small Oscillations of the Sliding Surfaces <b>2007</b> , 119-130		1
29	Site-Specific Attachment of Gold Nanoparticles to DNA Templates. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 635, C4.2.1		1
28	Superperiodic features observed on graphite under solution with scanning tunneling microscopy. <i>Surface Science Letters</i> , <b>1991</b> , 254, L454-L459		1
27	Microfluidic resonators with two parallel channels for independent sample loading and effective density tuning. <i>Micro and Nano Systems Letters</i> , <b>2020</b> , 8,	2	1
26	Dual Channel Microfluidic Resonators for Simultaneous Measurements of Liquid Analytes <b>2019</b> ,		1
25	Development of a 3D-printed modified Scheludko-cell: Potential application for adsorption and thin liquid film study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 561, 341-34	<b>5</b> 1	1
24	Microfluidic Cantilever Biosensors <b>2018</b> ,		1
23	Explosive Vapour Detection Using Micromechanical Sensors <b>2004</b> , 249-266		1
22	Photoinduced Multistable Resonance Frequency Switching of Phase Change Microstring at Room Temperature. <i>Advanced Electronic Materials</i> , <b>2022</b> , 8, 2100819	6.4	1
21	Pd Alloy Nanosheet Inks for Inkjet-Printable H 2 Sensors on Paper. Advanced Materials Interfaces, 220036.	<b>3</b> .6	1
20	Self-Assembly of Proteins into Three-Dimensional Structures Using Bio-Conjugation. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1663, 47		O
19	PerspectiveMaintaining the Quality of Life in Depopulating Communities: Expanding Smart Sensing via a Novel Power Supply. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 037564	3.9	О
18	Toward a mechanically stable solid electrolyte interphase. <i>Matter</i> , <b>2021</b> , 4, 2119-2122	12.7	O

#### LIST OF PUBLICATIONS

17	Polymer Microelectromechanical Systems: Hydrogel Microelectromechanical System (MEMS) Resonators: Beyond Cost-Effective Sensing Platform (Adv. Mater. Technol. 3/2019). <i>Advanced</i> <i>Materials Technologies</i> , <b>2019</b> , 4, 1970017	6.8
16	Investigation of Polymer Dendritic Growth in Composite Material using Contact Resonance Method. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1754, 61-67	
15	Determination of the Physical Properties of Oil Sands Components using Scanning Probe Microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1754, 69-74	
14	Label-Free Rapid Detection of Pathogens with Antimicrobial Peptide Assisted Impedance Spectrometry. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1793, 13-18	
13	Comments on the paper "A comprehensive modeling and vibration analysis of AFM microcantilevers subjected to nonlinear tip-sample interaction forces" by Sohrab Eslami and Nader Jalili. <i>Ultramicroscopy</i> , <b>2013</b> , 131, 92-3	3.1
12	Bismuth ferrite clusters induced hydrogel formation in human serum albumin. <i>Chemical Communications</i> , <b>2012</b> , 48, 4193-5	5.8
11	Microcantilever Sensors: Electrochemical Aspects and Biomedical Applications. <i>Modern Aspects of Electrochemistry</i> , <b>2012</b> , 127-171	
10	Biography of Stuart Lindsay. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 160401	1.8
9	Remote chemical sensing and recognition by acoustic mapping of photothermal fields. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 194103	3.4
8	Nanoscale Energy Conversion by Using Nano-Catalytic Particles <b>2006</b> , 545	
7	(Invited) Photothermal Cantilever Sensors for Soil Health Monitoring. <i>ECS Meeting Abstracts</i> , <b>2021</b> , MA2021-02, 1669-1669	0
6	Cantilever Arrays: A Universal Platform for Multiplexed Label-Free Bioassays <b>2006</b> , 21-33	
5	Electroless deposition of Fe-Ni alloys from acidic and alkaline solutions using hypophosphite as a reducing agent. <i>Journal of the Serbian Chemical Society</i> , <b>2019</b> , 84, 1199-1208	0.9
4	Nanomechanical Methods To Study Single Cells245-265	
3	Photothermal Sensing of Chemical Vapors Using Microcantilevers. <i>Nanostructure Science and Technology</i> , <b>2010</b> , 183-191	0.9
2	Standoff and Point Detection of Thin Polymer Layers Using Microcantilever Photothermal Spectroscopy. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 037501	3.9
1	Localized anisotropic stress in the sodiation of antimony anode. <i>Nano Energy</i> , <b>2022</b> , 98, 107349	17.1