

# Nick Lavrik

## List of Publications by Year in descending order

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155  
papers

6,613  
citations

71102

41  
h-index

66911

78  
g-index

156  
all docs

156  
docs citations

156  
times ranked

8097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cantilever transducers as a platform for chemical and biological sensors. Review of Scientific Instruments, 2004, 75, 2229-2253.	1.3	1,047
2	Femtogram mass detection using photothermally actuated nanomechanical resonators. Applied Physics Letters, 2003, 82, 2697-2699.	3.3	294
3	Large scale atmospheric pressure chemical vapor deposition of graphene. Carbon, 2013, 54, 58-67.	10.3	241
4	The effect of intrinsic crumpling on the mechanics of free-standing graphene. Nature Communications, 2015, 6, 8789.	12.8	219
5	Evolutionary selection growth of two-dimensional materials on polycrystalline substrates. Nature Materials, 2018, 17, 318-322.	27.5	204
6	Graphene Nucleation Density on Copper: Fundamental Role of Background Pressure. Journal of Physical Chemistry C, 2013, 117, 18919-18926.	3.1	179
7	Bimaterial Microcantilevers as a Hybrid Sensing Platform. Advanced Materials, 2008, 20, 653-680.	21.0	172
8	Peer Reviewed: Microcantilever Transducers: A new Approach in Sensor Technology. Analytical Chemistry, 2002, 74, 568 A-575 A.	6.5	169
9	Direct molecular force measurements of multiple adhesive interactions between cadherin ectodomains. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11820-11824.	7.1	160
10	Performance of uncooled microcantilever thermal detectors. Review of Scientific Instruments, 2004, 75, 1134-1148.	1.3	157
11	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. Nanotechnology, 2011, 22, 275716.	2.6	132
12	High-Performance Field-Effect Transistors Based on Polystyrene- <i>b</i> -Poly(3-hexylthiophene) Diblock Copolymers. ACS Nano, 2011, 5, 3559-3567.	14.6	122
13	Bi-material terahertz sensors using metamaterial structures. Optics Express, 2013, 21, 13256.	3.4	109
14	Quantifying Morphology of Sands Using 3D Imaging. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	107
15	Voltage-Gated Hydrophobic Nanopores. ACS Nano, 2011, 5, 7453-7461.	14.6	105
16	Gold Nano-Structures for Transduction of Biomolecular Interactions into Micrometer Scale Movements. Biomedical Microdevices, 2001, 3, 35-44.	2.8	95
17	Self-propelled sweeping removal of dropwise condensate. Applied Physics Letters, 2015, 106, .	3.3	95
18	3D-Printed Carbon Electrodes for Neurotransmitter Detection. Angewandte Chemie - International Edition, 2018, 57, 14255-14259.	13.8	94

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19	Enantioselective Sensors Based on Antibody-Mediated Nanomechanics. <i>Analytical Chemistry</i> , 2003, 75, 2342-2348.	6.5	89
20	Nanofabrication of Densely Packed Metal-Polymer Arrays for Surface-Enhanced Raman Spectrometry. <i>Applied Spectroscopy</i> , 2005, 59, 1501-1508.	2.2	85
21	Sensors for low-weight organic molecules based on molecular imprinting technique. <i>Sensors and Actuators B: Chemical</i> , 1994, 19, 629-631.	7.8	77
22	Silicon Nanopillars for Field-Enhanced Surface Spectroscopy. <i>ACS Nano</i> , 2012, 6, 2948-2959.	14.6	75
23	Polyaniline label-based conductometric sensor for IgG detection. <i>Sensors and Actuators B: Chemical</i> , 1996, 34, 283-288.	7.8	72
24	Asymmetric Wettability of Nanostructures Directs Leidenfrost Droplets. <i>ACS Nano</i> , 2014, 8, 860-867.	14.6	72
25	Enhanced chemi-mechanical transduction at nanostructured interfaces. <i>Chemical Physics Letters</i> , 2001, 336, 371-376.	2.6	70
26	Uncooled infrared imaging using bimaterial microcantilever arrays. <i>Applied Physics Letters</i> , 2006, 89, 073118.	3.3	69
27	Strong terahertz absorption using SiO <sub>2</sub> /Al based metamaterial structures. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	69
28	Hidden Area and Mechanical Nonlinearities in Freestanding Graphene. <i>Physical Review Letters</i> , 2017, 118, 266101.	7.8	67
29	Nanostructured Microcantilevers with Functionalized Cyclodextrin Receptor Phases: Self-Assembled Monolayers and Vapor-Deposited Films. <i>Analytical Chemistry</i> , 2002, 74, 3118-3126.	6.5	64
30	IR imaging using uncooled microcantilever detectors. <i>Ultramicroscopy</i> , 2003, 97, 451-458.	1.9	64
31	Chemical detection based on adsorption-induced and photoinduced stresses in microelectromechanical systems devices. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 1173.	1.6	59
32	Self-leveling uncooled microcantilever thermal detector. <i>Applied Physics Letters</i> , 2002, 81, 1306-1308.	3.3	57
33	Nanotechnology and chip level systems for pressure driven liquid chromatography and emerging analytical separation techniques: A review. <i>Analytica Chimica Acta</i> , 2011, 694, 6-20.	5.4	56
34	Photomechanical chemical microsensors. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 393-402.	7.8	51
35	Near-field microwave scanning probe imaging of conductivity inhomogeneities in CVD graphene. <i>Nanotechnology</i> , 2012, 23, 385706.	2.6	51
36	Enhancing chemi-mechanical transduction in microcantilever chemical sensing by surface modification. <i>Ultramicroscopy</i> , 2003, 97, 417-424.	1.9	49

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37	Graphene Bimetallic-like Cantilevers: Probing Graphene/Substrate Interactions. Nano Letters, 2011, 11, 4748-4752.	9.1	49
38	Hydrogen peroxide " sensitive enzyme sensor based on phthalocyanine thin film. Analytica Chimica Acta, 1999, 391, 289-297.	5.4	48
39	Detection and differentiation of biological species using microcalorimetric spectroscopy. Ultramicroscopy, 2003, 97, 459-465.	1.9	46
40	3D-Printed Carbon Nanoelectrodes for In Vivo Neurotransmitter Sensing. Nano Letters, 2020, 20, 6831-6836.	9.1	45
41	Complexing properties of calix[4]resorcinolarene LB films. Thin Solid Films, 1995, 259, 244-247.	1.8	44
42	Carbon nanospikes have better electrochemical properties than carbon nanotubes due to greater surface roughness and defect sites. Carbon, 2019, 155, 250-257.	10.3	44
43	Composite polyaniline/calixarene Langmuir - Blodgett films for gas sensing. Nanotechnology, 1996, 7, 315-319.	2.6	42
44	Detection of Explosive Compounds with the Use of Microcantilevers with Nanoporous Coatings. Sensor Letters, 2003, 1, 25-32.	0.4	42
45	High-Aspect-Ratio, Silicon Oxide-Enclosed Pillar Structures in Microfluidic Liquid Chromatography. Analytical Chemistry, 2010, 82, 9549-9556.	6.5	39
46	Superhydrophobic Analyte Concentration Utilizing Colloid-Pillar Array SERS Substrates. Analytical Chemistry, 2014, 86, 11819-11825.	6.5	39
47	Arrays of SiO <sub>2</sub> substrate-free micromechanical uncooled infrared and terahertz detectors. Journal of Applied Physics, 2008, 104, 054508.	2.5	37
48	Length scale of Leidenfrost ratchet switches droplet directionality. Nanoscale, 2014, 6, 9293-9299.	5.6	35
49	Enclosed pillar arrays integrated on a fluidic platform for on-chip separations and analysis. Lab on A Chip, 2010, 10, 1086.	6.0	34
50	Mapping internal structure of coal by confocal micro-Raman spectroscopy and scanning microwave microscopy. Fuel, 2014, 126, 32-37.	6.4	34
51	Detection of anthrax simulants with microcalorimetric spectroscopy: Bacillus subtilis and Bacillus cereus spores. Applied Optics, 2003, 42, 1757.	2.1	31
52	Independent component analysis of nanomechanical responses of cantilever arrays. Analytica Chimica Acta, 2007, 584, 101-105.	5.4	31
53	Influence of Geometry on Thin Layer and Diffusion Processes at Carbon Electrodes. Langmuir, 2021, 37, 2667-2676.	3.5	31
54	Studies of the Optical Properties of Metal-Pliable Polymer Composite Materials. Applied Spectroscopy, 2003, 57, 1346-1352.	2.2	30

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55	Development of MEMS based pyroelectric thermal energy harvesters. Proceedings of SPIE, 2011, , .	0.8	29
56	Silicon Nanopillars As a Platform for Enhanced Fluorescence Analysis. Analytical Chemistry, 2013, 85, 9031-9038.	6.5	29
57	Quantitative 3D-KPFM imaging with simultaneous electrostatic force and force gradient detection. Nanotechnology, 2015, 26, 175707.	2.6	29
58	Ionic Conductance through Graphene: Assessing Its Applicability as a Proton Selective Membrane. ACS Nano, 2019, 13, 12109-12119.	14.6	28
59	Design and characterization of terahertz-absorbing nano-laminates of dielectric and metal thin films. Optics Express, 2010, 18, 14488.	3.4	27
60	Enhanced Interfacial Adhesion and Osteogenesis for Rapid "Bone-like" Biomineralization by PECVD-Based Silicon Oxynitride Overlays. ACS Applied Materials & Interfaces, 2015, 7, 15368-15379.	8.0	27
61	Review of pyroelectric thermal energy harvesting and new MEMs-based resonant energy conversion techniques. Proceedings of SPIE, 2012, , .	0.8	26
62	An approach to conductometric immunosensor based on phthalocyanine thin film. Biosensors and Bioelectronics, 1998, 13, 359-369.	10.1	25
63	Characterization of the strain-rate"dependent mechanical response of single cell"cell junctions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
64	Protonation and charge transfer in polyaniline: an optical absorption study of the mixed solutions. Synthetic Metals, 1997, 90, 1-4.	3.9	24
65	Scanning Near-Field Microwave Microscopy of VO <sub>2</sub> and Chemical Vapor Deposition Graphene. Advanced Functional Materials, 2013, 23, 2635-2645.	14.9	24
66	Growth and Electrochemical Characterization of Carbon Nanospire Thin Film Electrodes. Journal of the Electrochemical Society, 2014, 161, H558-H563.	2.9	24
67	Optical and Direct Force Measurements of the Interactions between Monolayers of Aromatic Macrocycles on Surfactant Monolayers. Langmuir, 2000, 16, 1842-1851.	3.5	23
68	Cryogenic Etching of Silicon: An Alternative Method for Fabrication of Vertical Microcantilever Master Molds. Journal of Microelectromechanical Systems, 2010, 19, 64-74.	2.5	22
69	Lithography-free approach to highly efficient, scalable SERS substrates based on disordered clusters of disc-on-pillar structures. Nanotechnology, 2013, 24, 505302.	2.6	22
70	Structure and electronic properties of Langmuir-Blodgett films of calixarene/fullerene composites. Supramolecular Science, 1997, 4, 341-347.	0.7	21
71	Surface-enhanced resonance Raman scattering of adsorbates under liquid nitrogen. Chemical Physics Letters, 2001, 339, 167-173.	2.6	21
72	Surface enhanced Raman spectroscopy for microfluidic pillar arrayed separation chips. Analyst, The, 2012, 137, 1005-1012.	3.5	21

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73	Highly Ordered Silicon Pillar Arrays As Platforms for Planar Chromatography. <i>Analytical Chemistry</i> , 2013, 85, 11802-11808.	6.5	21
74	Surface-Enhanced Raman Scattering as an Emerging Characterization and Detection Technique. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-15.	3.4	20
75	Local Field Enhancement of Pillar Nanosurfaces for SERS. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18096-18102.	3.1	19
76	Efficient disc on pillar substrates for surface enhanced Raman spectroscopy. <i>Chemical Communications</i> , 2011, 47, 3814.	4.1	19
77	Wicking Nanopillar Arrays with Dual Roughness for Selective Transport and Fluorescence Measurements. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 17894-17901.	8.0	18
78	Multi-mode humidity sensing with water-soluble copper phthalocyanine for increased sensitivity and dynamic range. <i>Scientific Reports</i> , 2017, 7, 9921.	3.3	17
79	Response Signatures for Nanostructured, Optically-Probed, Functionalized Microcantilever Sensing Arrays. <i>Sensor Letters</i> , 2004, 2, 238-245.	0.4	17
80	Length Scale Selects Directionality of Droplets on Vibrating Pillar Ratchet. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400337.	3.7	16
81	Template sensors for low weight organic molecules based on SiO <sub>2</sub> surfaces. <i>Sensors and Actuators B: Chemical</i> , 1993, 14, 708-710.	7.8	14
82	Nitrogen oxide gas sensor based on tetra-tertbutyl copper phthalocyanine Langmuir-Blodgett films. <i>International Journal of Electronics</i> , 1995, 78, 129-133.	1.4	14
83	Uncooled MEMS IR imagers with optical readout and image processing. , 2007, , .		14
84	Retention in Porous Layer Pillar Array Planar Separation Platforms. <i>Analytical Chemistry</i> , 2016, 88, 8741-8748.	6.5	14
85	Characterization of volatile, hydrophobic cyclodextrin derivatives as thin films for sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 171-180.	7.8	13
86	Electrical conductivity of insulating polymer nanoscale layers: environmental effects. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1977-1986.	2.8	13
87	3D-Printed Carbon Electrodes for Neurotransmitter Detection. <i>Angewandte Chemie</i> , 2018, 130, 14451-14455.	2.0	13
88	Towards the D1 Protein Application for the Development of Sensors Specific for Herbicides. <i>Analytical Letters</i> , 1998, 31, 2577-2589.	1.8	12
89	Effect of the Microenvironment on the Recognition of Immobilized Cytochromes by Soluble Redox Proteins. <i>Langmuir</i> , 2000, 16, 3414-3421.	3.5	12
90	Single-Pore Membranes Gated by Microelectromagnetic Traps. <i>Advanced Materials</i> , 2010, 22, 2759-2763.	21.0	12

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91	Nanotransfer Printing Using Plasma Etched Silicon Stamps and Mediated by in Situ Deposited Fluoropolymer. <i>Journal of the American Chemical Society</i> , 2011, 133, 7722-7724.	13.7	12
92	Infrared imaging using arrays of SiO <sub>2</sub> micromechanical detectors. <i>Optics Letters</i> , 2012, 37, 3966.	3.3	12
93	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31745-31754.	8.0	12
94	Cavitation on Deterministically Nanostructured Surfaces in Contact with an Aqueous Phase: A Small-Angle Neutron Scattering Study. <i>Langmuir</i> , 2014, 30, 9985-9990.	3.5	10
95	Pyroelectric Energy Scavenging Techniques for Self-Powered Nuclear Reactor Wireless Sensor Networks. <i>Nuclear Technology</i> , 2014, 188, 172-184.	1.2	10
96	Dispersion Characteristics in Disk-on-Pillar Array Nanostructures for Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13624-13629.	3.1	9
97	Magnetically gated microelectrodes. <i>Chemical Communications</i> , 2012, 48, 1009-1011.	4.1	9
98	Nanoscale pillar arrays for separations. <i>Analyst, The</i> , 2015, 140, 3347-3351.	3.5	9
99	Thermal conductivity of nano- and micro-crystalline diamond films studied by photothermal excitation of cantilever structures. <i>Diamond and Related Materials</i> , 2021, 113, 108279.	3.9	9
100	Uncooled infrared imaging using bimaterial microcantilever arrays. , 2006, , .		8
101	Evaluation of Porous Silicon Oxide on Silicon Microcantilevers for Sensitive Detection of Gaseous HF. <i>Analytical Chemistry</i> , 2017, 89, 6272-6276.	6.5	8
102	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in Mg <sup>2+</sup> /Ti <sup>2+</sup> /O Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19970-19978.	3.1	8
103	Optically read Coriolis vibratory gyroscope based on a silicon tuning fork. <i>Microsystems and Nanoengineering</i> , 2019, 5, 47.	7.0	8
104	Characterization of hydrogen responsive nanoporous palladium films synthesized via a spontaneous galvanic displacement reaction. <i>Nanotechnology</i> , 2012, 23, 465403.	2.6	7
105	Manipulating the inter pillar gap in pillar array ultra-thin layer planar chromatography platforms. <i>Analyst, The</i> , 2016, 141, 1239-1245.	3.5	7
106	Realization of deep 3D metal electrodes in diamond radiation detectors. <i>Applied Physics Letters</i> , 2018, 112, 222101.	3.3	7
107	Noncontact tip-enhanced Raman spectroscopy for nanomaterials and biomedical applications. <i>Nanoscale Advances</i> , 2019, 1, 3392-3399.	4.6	7
108	Room-temperature Insulating Ferromagnetic (Ni,Co) 1+2 x Ti 1 <sup>~</sup> x O 3 Thin Films. <i>Annalen Der Physik</i> , 2019, 531, 1900299.	2.4	7

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109	Performance of uncooled microcantilever thermal detectors. , 2005, , .		6
110	Electromagnetic Micropores: Fabrication and Operation. Langmuir, 2010, 26, 19239-19244.	3.5	6
111	Nanopillar Based Enhanced-Fluorescence Detection of Surface-Immobilized Beryllium. Analytical Chemistry, 2015, 87, 6814-6821.	6.5	6
112	Surface Modification of Silicon Pillar Arrays To Enhance Fluorescence Detection of Uranium and DNA. ACS Omega, 2017, 2, 7313-7319.	3.5	6
113	Ultra-thin layer chromatography with integrated silver colloid-based SERS detection. Electrophoresis, 2017, 38, 361-367.	2.4	6
114	Carbonization of 3D printed polymer structures for CMOS-compatible electrochemical sensors. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, 052203.	1.2	6
115	Formation and Optical Absorption of Clusters of the p-tert-butylcalix[8]arene:C60 Complex. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1999, 35, 85-91.	1.6	5
116	Suppression of conductivity in polyaniline films in presence of pentadecyl-tetracyanoquinodimethane. Synthetic Metals, 1999, 98, 173-175.	3.9	5
117	<title>Sensing and actuating functionality of hybrid MEMS combining enhanced chemi-mechanical transduction with surface-enhanced Raman spectroscopy</title>. , 2001, , .		5
118	Grafting density effects, optoelectrical properties and nano-patterning of poly(para-phenylene) brushes. Journal of Materials Chemistry A, 2013, 1, 13426.	10.3	5
119	Infrared microcalorimetric spectroscopy using quantum cascade lasers. Optics Letters, 2013, 38, 507.	3.3	5
120	Magnified Neutron Radiography with Coded Sources. Physics Procedia, 2015, 69, 218-226.	1.2	5
121	Extrapolating Dynamic Leidenfrost Principles to Metallic Nanodroplets on Asymmetrically Textured Surfaces. Scientific Reports, 2015, 5, 11769.	3.3	5
122	Performance Characteristics of Bio-Inspired Metal Nanostructures as Surface-Enhanced Raman Scattered (SERS) Substrates. Applied Spectroscopy, 2016, 70, 1432-1445.	2.2	5
123	Step-free GaN surfaces grown by confined-area metal-organic vapor phase epitaxy. APL Materials, 2017, 5, .	5.1	5
124	Cryo-quenched Fe-Ni-Cr alloy single crystals: A new decorative steel. Journal of Alloys and Compounds, 2017, 691, 666-671.	5.5	4
125	Carbon nanospikes for biosensing applications. , 2017, 2017, 193-196.		4
126	Chemical and Biological Sensors Based on Microcantilevers. , 2004, , 331-379.		4



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127	A new approach for probing matter in periodic nanoconfinements using neutron scattering. Journal of Applied Crystallography, 2014, 47, 1367-1373.	4.5	4
128	Microcantilever sensors with chemically selective coatings of ionic liquids. AIChE Journal, 2007, 53, 2726-2731.	3.6	3
129	Progress with MEMS based UGS (IR/THz). Proceedings of SPIE, 2008, , .	0.8	3
130	Bilayer self-assembly on a hydrophilic, deterministically nanopatterned surface. Nano Research, 2013, 6, 784-794.	10.4	3
131	Magnified neutron radiography with coded sources. Proceedings of SPIE, 2014, , .	0.8	3
132	Carbonized Electrodes for Electrochemical Sensing. , 2019, , .		3
133	Micromechanical Sensors. Nanostructure Science and Technology, 2004, , 417-439.	0.1	2
134	Grating-based holographic diffraction methods for X-rays and neutrons: phase object approximation and dynamical theory. Journal of Applied Crystallography, 2018, 51, 68-75.	4.5	2
135	Centrifugalâ€driven, reducedâ€dimension, planar chromatography. Electrophoresis, 2018, 39, 438-444.	2.4	2
136	Surface-Enhanced Raman Scattering (SERS) Studies of Disc-on-Pillar (DOP) Arrays: Contrasting Enhancement Factor with Analytical Performance. Applied Spectroscopy, 2019, 73, 665-677.	2.2	2
137	Uncooled Infrared MEMS Detectors. , 2004, , 381-419.		2
138	<title>Factors affecting nonspecific interaction of BSA with solid surfaces: an SPR study</title>. , 1998, 3199, 197.		1
139	Chemical Sensors Based on Functionalized Microcantilever Arrays. , 2006, , .		1
140	Using micro-electro-mechanical systems (MEMS) as small antennas. , 2012, , .		1
141	Surface-Enhanced Raman Scattering. Journal of Nanotechnology, 2012, 2012, 1-2.	3.4	1
142	Nonlinear mechanical resonators for ultra-sensitive mass detection. Proceedings of SPIE, 2014, , .	0.8	1
143	Synthetic moth antennae fabricated as preconcentrator for odor collection. , 2017, , .		1
144	Carbonized Polymer Nanostructures for Biosensing. , 2019, , .		1

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145	Carbonized Polymer for Joule Heating Processing Towards Biosensor Development. , 2021, 2021, 7578-7581.		1
146	Nanomechanics weighs in. Physics World, 2004, 17, 19-20.	0.0	0
147	Mechanical structures feel the chill. Physics World, 2005, 18, 25-26.	0.0	0
148	Nanofabrication of Disc on Pillar Substrates for Surface Enhanced Raman Spectroscopy. , 2010, , .		0
149	Detection of electromagnetic waves using MEMS antennas. , 2011, , .		0
150	Detection of electromagnetic waves using charged cantilevers. Applied Physics Letters, 2012, 100, 103108.	3.3	0
151	Permanently Magnetized Insulating Thinâ€Film Devices by Reduction. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000346.	2.4	0
152	Hybrid Nanostructured Microcantilevers for Enhanced Chemimechanical Transduction and Surface Enhanced Raman Spectroscopy. , 2001, , 450-452.		0
153	Sensor Science for National Security. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 461-478.	0.2	0
154	Modeling, Fabrication, and Characterization of Disc on Pillar Structures for Optical Field Enhancement and Extreme Nanofocusing. , 2013, , .		0
155	Probing the Nanoscale Heterogeneity of SEI on Silicon Anode Using Tip Enhanced Raman Spectroscopy (TERS). ECS Meeting Abstracts, 2018, , .	0.0	0