Panos Datskos

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119
papers5,323
citations35
h-index71
g-index135
ext. papers5,870
ext. citations4.6
avg, IF5.41
L-index

#	Paper	IF	Citations
119	Cantilever transducers as a platform for chemical and biological sensors. <i>Review of Scientific Instruments</i> , 2004 , 75, 2229-2253	1.7	870
118	Role of hydrogen in chemical vapor deposition growth of large single-crystal graphene. <i>ACS Nano</i> , 2011 , 5, 6069-76	16.7	700
117	Femtogram mass detection using photothermally actuated nanomechanical resonators. <i>Applied Physics Letters</i> , 2003 , 82, 2697-2699	3.4	241
116	Large scale atmospheric pressure chemical vapor deposition of graphene. <i>Carbon</i> , 2013 , 54, 58-67	10.4	212
115	Graphene Nucleation Density on Copper: Fundamental Role of Background Pressure. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18919-18926	3.8	162
114	Bimaterial Microcantilevers as a Hybrid Sensing Platform. Advanced Materials, 2008, 20, 653-680	24	155
113	Synthesis of Hexagonal Boron Nitride Monolayer: Control of Nucleation and Crystal Morphology. <i>Chemistry of Materials</i> , 2015 , 27, 8041-8047	9.6	153
112	Microcantilever transducers: a new approach in sensor technology. <i>Analytical Chemistry</i> , 2002 , 74, 568A	- 5 785A	140
111	Performance of uncooled microcantilever thermal detectors. <i>Review of Scientific Instruments</i> , 2004 , 75, 1134-1148	1.7	122
110	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. <i>Nanotechnology</i> , 2011 , 22, 275716	3.4	113
109	Air-stable droplet interface bilayers on oil-infused surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7588-93	11.5	103
108	Remote optical detection using microcantilevers. <i>Review of Scientific Instruments</i> , 1996 , 67, 3434-3439	1.7	84
107	Selectivity of chemical sensors based on micro-cantilevers coated with thin polymer films. <i>Analytica Chimica Acta</i> , 2000 , 422, 89-99	6.6	83
106	Remote infrared radiation detection using piezoresistive microcantilevers. <i>Applied Physics Letters</i> , 1996 , 69, 2986-2988	3.4	81
105	Gold Nano-Structures for Transduction of Biomolecular Interactions into Micrometer Scale Movements. <i>Biomedical Microdevices</i> , 2001 , 3, 35-44	3.7	79
104	Enantioselective sensors based on antibody-mediated nanomechanics. <i>Analytical Chemistry</i> , 2003 , 75, 2342-8	7.8	76
103	Uncooled thermal imaging using a piezoresistive microcantilever. <i>Applied Physics Letters</i> , 1996 , 69, 3277	7- 3 479	74

102	Detection of 2-mercaptoethanol using gold-coated micromachined cantilevers. <i>Sensors and Actuators B: Chemical</i> , 1999 , 61, 75-82	8.5	65	
101	Enhanced chemi-mechanical transduction at nanostructured interfaces. <i>Chemical Physics Letters</i> , 2001 , 336, 371-376	2.5	60	
100	Photoinduced and thermal stress in silicon microcantilevers. <i>Applied Physics Letters</i> , 1998 , 73, 2319-232	213.4	60	
99	Nanostructured microcantilevers with functionalized cyclodextrin receptor phases: self-assembled monolayers and vapor-deposited films. <i>Analytical Chemistry</i> , 2002 , 74, 3118-26	7.8	58	
98	IR imaging using uncooled microcantilever detectors. <i>Ultramicroscopy</i> , 2003 , 97, 451-8	3.1	56	
97	Uncooled infrared imaging using bimaterial microcantilever arrays. <i>Applied Physics Letters</i> , 2006 , 89, 07	33.148	53	
96	Chemical detection based on adsorption-induced and photoinduced stresses in microelectromechanical systems devices. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 1173		51	
95	Analyte species and concentration identification using differentially functionalized microcantilever arrays and artificial neural networks. <i>Analytica Chimica Acta</i> , 2006 , 558, 94-101	6.6	49	
94	Strong and electrically conductive graphene-based composite fibers and laminates. <i>ACS Applied Materials & Amp; Interfaces</i> , 2015 , 7, 10702-9	9.5	48	
93	Belf-levelingLuncooled microcantilever thermal detector. <i>Applied Physics Letters</i> , 2002 , 81, 1306-1308	3.4	46	
92	Photomechanical chemical microsensors. Sensors and Actuators B: Chemical, 2001, 76, 393-402	8.5	45	
91	Optically transparent and environmentally durable superhydrophobic coating based on functionalized SiOIhanoparticles. <i>Nanotechnology</i> , 2015 , 26, 055602	3.4	44	
90	Enhancing chemi-mechanical transduction in microcantilever chemical sensing by surface modification. <i>Ultramicroscopy</i> , 2003 , 97, 417-24	3.1	44	
89	Scalable superhydrophobic coatings based on fluorinated diatomaceous earth: Abrasion resistance versus particle geometry. <i>Applied Surface Science</i> , 2014 , 292, 563-569	6.7	42	
88	Detection and differentiation of biological species using microcalorimetric spectroscopy. <i>Ultramicroscopy</i> , 2003 , 97, 459-65	3.1	40	
87	Temperature dependence of electron attachment and detachment in SF6 and c-C4F6. <i>Journal of Chemical Physics</i> , 1993 , 99, 8607-8616	3.9	39	
86	Modification of micro-cantilever sensors with sol-gels to enhance performance and immobilize chemically selective phases. <i>Talanta</i> , 2000 , 53, 599-608	6.2	36	
85	Effect of temperature on the attachment of slow (I eV) electrons to CH3Br. <i>Journal of Chemical Physics</i> , 1992 , 97, 9031-9035	3.9	35	

84	Detection of Explosive Compounds with the Use of Microcantilevers with Nanoporous Coatings. <i>Sensor Letters</i> , 2003 , 1, 25-32	0.9	34
83	Characterization of ligand-functionalized microcantilevers for metal ion sensing. <i>Analytical Chemistry</i> , 2005 , 77, 6601-8	7.8	33
82	Superhydrophobic analyte concentration utilizing colloid-pillar array SERS substrates. <i>Analytical Chemistry</i> , 2014 , 86, 11819-25	7.8	32
81	Differentially ligand-functionalized microcantilever arrays for metal ion identification and sensing. <i>Analytical Chemistry</i> , 2007 , 79, 7062-8	7.8	32
80	Electron attachment to excited states of silane: Implications for plasma processing discharges. Journal of Applied Physics, 1997 , 81, 7715-7727	2.5	31
79	Sorption-induced static bending of microcantilevers coated with viscoelastic material. <i>Journal of Applied Physics</i> , 2008 , 103, 064913	2.5	31
78	Synthesis of segmented silica rods by regulation of the growth temperature. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 451-4	16.4	30
77	Photodetachment of SF6[]Chemical Physics Letters, 1995 , 239, 38-43	2.5	30
76	Temperature-enhanced electron attachment to CH3Cl. Chemical Physics Letters, 1990, 168, 324-329	2.5	30
75	Photophysical and electron attachment properties of ArF-excimer-laser irradiated H2. <i>Physical Review A</i> , 1997 , 55, 4131-4142	2.6	29
74	Step-by-Step Growth of Complex Oxide Microstructures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9011-5	16.4	28
73	Arrays of SiO2 substrate-free micromechanical uncooled infrared and terahertz detectors. <i>Journal of Applied Physics</i> , 2008 , 104, 054508	2.5	28
72	Detection of anthrax simulants with microcalorimetric spectroscopy: Bacillus subtilis and Bacillus cereus spores. <i>Applied Optics</i> , 2003 , 42, 1757-62	1.7	26
71	Temperature-enhanced electron detachment from C6F6hegative ions. <i>Journal of Chemical Physics</i> , 1993 , 98, 7875-7882	3.9	26
70	Independent component analysis of nanomechanical responses of cantilever arrays. <i>Analytica Chimica Acta</i> , 2007 , 584, 101-5	6.6	25
69	Detection of infrared photons using the electronic stress in metal-semiconductor cantilever interfaces. <i>Ultramicroscopy</i> , 2000 , 82, 49-56	3.1	25
68	Development of MEMS based pyroelectric thermal energy harvesters 2011,		24
67	Ionization coefficients in selected gas mixtures of interest to particle detectors. <i>Journal of Applied Physics</i> , 1992 , 71, 15-21	2.5	24

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66	Variation of the electron attachment to n-C4F10 with temperature. <i>Journal of Chemical Physics</i> , 1987 , 86, 1982-1990	3.9	24	
65	Review of pyroelectric thermal energy harvesting and new MEMs-based resonant energy conversion techniques 2012 ,		23	
64	Facile hyphenation of gas chromatography and a microcantilever array sensor for enhanced selectivity. <i>Analytical Chemistry</i> , 2007 , 79, 364-70	7.8	23	
63	Photodetachment in the gaseous, liquid, and solid states of matter. <i>Journal of Chemical Physics</i> , 1994 , 101, 6728-6742	3.9	23	
62	Feasibility of tunable MEMS photonic crystal devices. <i>Ultramicroscopy</i> , 2003 , 97, 473-9	3.1	20	
61	Fabrication of quantum well microcantilever photon detectors. <i>Ultramicroscopy</i> , 2001 , 86, 191-206	3.1	18	
60	Variation with temperature of the electron attachment to SO2F2. <i>Journal of Chemical Physics</i> , 1989 , 90, 2626-2630	3.9	17	
59	Addressable morphology control of silica structures by manipulating the reagent addition time. <i>RSC Advances</i> , 2014 , 4, 2291-2294	3.7	16	
58	Non-contact current measurement with cobalt-coated microcantilevers. <i>Sensors and Actuators A: Physical</i> , 2004 , 112, 32-35	3.9	16	
57	Development of a nanomechanical biosensor for analysis of endocrine disrupting chemicals. <i>Lab on A Chip</i> , 2007 , 7, 1184-91	7.2	15	
56	The ionization threshold of N,N,N[NEtetramethyl-p-phenylenediamine in dense fluid ethane; effects of fluid density and temperature. <i>Journal of Chemical Physics</i> , 1989 , 90, 6619-6626	3.9	14	
55	Response Signatures for Nanostructured, Optically-Probed, Functionalized Microcantilever Sensing Arrays. <i>Sensor Letters</i> , 2004 , 2, 238-245	0.9	14	
54	Novel technique for real-time monitoring of electron attachment to laser-excited molecules. <i>Journal of Chemical Physics</i> , 1996 , 104, 8382-8392	3.9	12	
53	Colloidosome like structures: self-assembly of silica microrods. <i>RSC Advances</i> , 2016 , 6, 26734-26737	3.7	10	
52	Synthesis of Segmented Silica Rods by Regulation of the Growth Temperature. <i>Angewandte Chemie</i> , 2014 , 126, 461-464	3.6	10	
51	Standoff imaging of chemicals using IR spectroscopy 2011 ,		10	
50	Nanostructured cantilevers as nanomechanical immunosensors for cytokine detection. <i>Nanobiotechnology</i> , 2005 , 1, 237-244		10	
49	Nanocantilever signal transduction by electron transfer. <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 369-73	1.3	10	

48	In situ capping for size control of monochalcogenide (ZnS, CdS and SnS) nanocrystals produced by anaerobic metal-reducing bacteria. <i>Nanotechnology</i> , 2015 , 26, 325602	3.4	9
47	Synthesis of very small diameter silica nanofibers using sound waves. <i>Chemical Communications</i> , 2014 , 50, 7277-9	5.8	9
46	Pyroelectric Energy Scavenging Techniques for Self-Powered Nuclear Reactor Wireless Sensor Networks. <i>Nuclear Technology</i> , 2014 , 188, 172-184	1.4	9
45	Optical and infrared detection using microcantilevers 1996,		9
44	Ultraresponsive thermal sensors for the detection of explosives using calorimetric spectroscopy (CalSpec) 1999 ,		9
43	Effect of vibrational excitation on electron transport in gases. Chemical Physics Letters, 1991, 186, 11-14	4 2.5	9
42	Infrared imaging using arrays of SiO2 micromechanical detectors. <i>Optics Letters</i> , 2012 , 37, 3966-8	3	8
41	Evaluation of Porous Silicon Oxide on Silicon Microcantilevers for Sensitive Detection of Gaseous HF. <i>Analytical Chemistry</i> , 2017 , 89, 6272-6276	7.8	7
40	Control of membrane permeability in air-stable droplet interface bilayers. <i>Langmuir</i> , 2015 , 31, 4224-31	4	7
39	Step-by-Step Growth of Complex Oxide Microstructures. <i>Angewandte Chemie</i> , 2015 , 127, 9139-9143	3.6	7
38	Uncooled MEMS IR imagers with optical readout and image processing 2007,		7
37	Micromechanical uncooled photon detectors 2000 , 3948, 80		7
36	Characterization of hydrogen responsive nanoporous palladium films synthesized via a spontaneous galvanic displacement reaction. <i>Nanotechnology</i> , 2012 , 23, 465403	3.4	6
35	Temperature-enhanced autodetachment from c-C4FB*. Chemical Physics Letters, 1992, 195, 329-332	2.5	6
34	Low cost anti-soiling coatings for CSP collector mirrors and heliostats 2014,		5
33	Infrared microcalorimetric spectroscopy using quantum cascade lasers. <i>Optics Letters</i> , 2013 , 38, 507-9	3	5
32	Rapid Detection of Analytes with Improved Selectivity Using Coated Microcantilever Chemical Sensors and Estimation Theory 2007 ,		5
31	Electron attachment to photofragments and Rydberg states in laser-irradiated CCl2F2. <i>Journal of Applied Physics</i> , 1998 , 84, 3442-3450	2.5	5

30	Novel photon detection based on electronically induced stress in silicon 1998 , 3379, 173		5
29	Detection of infrared photons using the electronic stress in metal-semiconductor interfaces 1999 ,		5
28	Effect of Temperature on the Dissociative and Nondissociative Electron Attachment to Freons. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992 , 96, 448-450		5
27	Synthesis of Half-Sphere/Half-Funnel-Shaped Silica Structures by Reagent Localization and the Role of Water in Shape Control. <i>Chemistry - A European Journal</i> , 2016 , 22, 18700-18704	4.8	4
26	Enhanced Durability Transparent Superhydrophobic Anti-Soiling Coatings for CSP Applications 2014 ,		4
25	Uncooled infrared imaging using bimaterial microcantilever arrays 2006,		4
24	Electron Attachment to Excited Molecules. NATO ASI Series Series B: Physics, 1994, 415-442		4
23	Optically read Coriolis vibratory gyroscope based on a silicon tuning fork. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 47	7.7	3
22	A Finite Element Model of Self-Resonating Bimorph Microcantilever for Fast Temperature Cycling in A Pyroelectric Energy Harvester. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1325, 159		3
21	Progress with MEMS based UGS (IR/THz) 2008,		3
21	Progress with MEMS based UGS (IR/THz) 2008, Microcantilever sensors with chemically selective coatings of ionic liquids. AICHE Journal, 2007, 53, 2726	6 <i>-92</i> F31	
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20	Microcantilever sensors with chemically selective coatings of ionic liquids. <i>AICHE Journal</i> , 2007 , 53, 2726 An atomic force microscope-based investigation of vertical transport through		3
20	Microcantilever sensors with chemically selective coatings of ionic liquids. <i>AICHE Journal</i> , 2007 , 53, 2726 An atomic force microscope-based investigation of vertical transport through GaAs/GaAlAs/InAlAs/GaAs step-barrier heterostructures. <i>Ultramicroscopy</i> , 2002 , 91, 133-8 Sensing and actuating functionality of hybrid MEMS combining enhanced chemi-mechanical		3
20 19 18	Microcantilever sensors with chemically selective coatings of ionic liquids. <i>AICHE Journal</i> , 2007 , 53, 2726 An atomic force microscope-based investigation of vertical transport through GaAs/GaAlAs/InAlAs/GaAs step-barrier heterostructures. <i>Ultramicroscopy</i> , 2002 , 91, 133-8 Sensing and actuating functionality of hybrid MEMS combining enhanced chemi-mechanical transduction with surface-enhanced Raman spectroscopy 2001 ,	3.1	3 3 3
20 19 18	Microcantilever sensors with chemically selective coatings of ionic liquids. <i>AICHE Journal</i> , 2007 , 53, 2726 An atomic force microscope-based investigation of vertical transport through GaAs/GaAlAs/InAlAs/GaAs step-barrier heterostructures. <i>Ultramicroscopy</i> , 2002 , 91, 133-8 Sensing and actuating functionality of hybrid MEMS combining enhanced chemi-mechanical transduction with surface-enhanced Raman spectroscopy 2001 , Electron attachment to boron trichloride. <i>Journal of Applied Physics</i> , 1998 , 84, 5805-5807	3.1	3333
20 19 18 17 16	Microcantilever sensors with chemically selective coatings of ionic liquids. <i>AICHE Journal</i> , 2007 , 53, 2720 An atomic force microscope-based investigation of vertical transport through GaAs/GaAlAs/InAlAs/GaAs step-barrier heterostructures. <i>Ultramicroscopy</i> , 2002 , 91, 133-8 Sensing and actuating functionality of hybrid MEMS combining enhanced chemi-mechanical transduction with surface-enhanced Raman spectroscopy 2001 , Electron attachment to boron trichloride. <i>Journal of Applied Physics</i> , 1998 , 84, 5805-5807 Standoff Imaging of Trace RDX Using Quantum Cascade Lasers. <i>IEEE Sensors Journal</i> , 2020 , 20, 149-154 Spray-on superhydrophobic coatings with high mechanical durability for anti-corrosion and	3.1	33333

12	Micromechanical Sensors. <i>Nanostructure Science and Technology</i> , 2004 , 417-439	0.9	2
11	Optical readout of uncooled thermal detectors 2000 , 4130, 185		2
10	Piezoresistive microcantilever optimization for uncooled infrared detection technology 1996 , 2817, 17	9	2
9	Chemical Sensors Based on Funstionalized Microcantilever Arrays 2006,		1
8	Attachment of Low Energy Electrons to Hotts F6 Molecules 1994, 23-30		1
7	Multi-spectral Infrared Computed Tomography. <i>IS&T International Symposium on Electronic Imaging</i> , 2016 , 2016, 1-5	1	1
6	Temperature Dependence of the Dissociative Electron Attachment to CH3Cl and C2H5Cl 1991 , 35-42		1
5	Detection of electromagnetic waves using charged cantilevers. <i>Applied Physics Letters</i> , 2012 , 100, 1031	0 § .4	
4	Response to Comment on Temperature-enhanced electron detachment from C6F6[hegative ions [J. Chem. Phys. 100, 6981 (1994)]. <i>Journal of Chemical Physics</i> , 1994 , 100, 6983-6983	3.9	
3	Hybrid Nanostructured Microcantilevers for Enhanced Chemimechanical Transduction and Surface Enhanced Raman Spectrocopy 2001 , 450-452		
2	Effect of Temperature on the Electron Attachment and Detachment Properties of c-C4F6 1994 , 13-20		
1	Sensor Science for National Security. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009 , 461-478	0.3	