

Panos Datskos

List of Publications by Year in Descending Order

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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.

119
papers

5,323
citations

35
h-index

71
g-index

135
ext. papers

5,870
ext. citations

4.6
avg. IF

5.41
L-index

#	Paper	IF	Citations
119	Standoff Imaging of Trace RDX Using Quantum Cascade Lasers. <i>IEEE Sensors Journal</i> , 2020 , 20, 149-154	4	3
118	Optically read Coriolis vibratory gyroscope based on a silicon tuning fork. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 47	7.7	3
117	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
116	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
115	Colloidosome like structures: self-assembly of silica microrods. <i>RSC Advances</i> , 2016 , 6, 26734-26737	3.7	10
114	Multi-spectral Infrared Computed Tomography. <i>IS&T International Symposium on Electronic Imaging</i> , 2016 , 2016, 1-5	1	1
113	Optically transparent and environmentally durable superhydrophobic coating based on functionalized SiO ₂ nanoparticles. <i>Nanotechnology</i> , 2015 , 26, 055602	3.4	44
112	Control of membrane permeability in air-stable droplet interface bilayers. <i>Langmuir</i> , 2015 , 31, 4224-31	4	7
111	Strong and electrically conductive graphene-based composite fibers and laminates. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10702-9	9.5	48
110	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
109	Step-by-Step Growth of Complex Oxide Microstructures. <i>Angewandte Chemie</i> , 2015 , 127, 9139-9143	3.6	7
108	Step-by-Step Growth of Complex Oxide Microstructures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9011-5	16.4	28
107	Synthesis of Hexagonal Boron Nitride Monolayer: Control of Nucleation and Crystal Morphology. <i>Chemistry of Materials</i> , 2015 , 27, 8041-8047	9.6	153
106	Addressable morphology control of silica structures by manipulating the reagent addition time. <i>RSC Advances</i> , 2014 , 4, 2291-2294	3.7	16
105	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
104	Synthesis of very small diameter silica nanofibers using sound waves. <i>Chemical Communications</i> , 2014 , 50, 7277-9	5.8	9
103	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

102	Pyroelectric Energy Scavenging Techniques for Self-Powered Nuclear Reactor Wireless Sensor Networks. <i>Nuclear Technology</i> , 2014 , 188, 172-184	1.4	9
101	Synthesis of segmented silica rods by regulation of the growth temperature. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 451-4	16.4	30
100	Synthesis of Segmented Silica Rods by Regulation of the Growth Temperature. <i>Angewandte Chemie</i> , 2014 , 126, 461-464	3.6	10
99	Low cost anti-soiling coatings for CSP collector mirrors and heliostats 2014 ,		5
98	Spray-on superhydrophobic coatings with high mechanical durability for anti-corrosion and anti-soiling applications 2014 ,		2
97	Enhanced Durability Transparent Superhydrophobic Anti-Soiling Coatings for CSP Applications 2014 ,		4
96	Superhydrophobic analyte concentration utilizing colloid-pillar array SERS substrates. <i>Analytical Chemistry</i> , 2014 , 86, 11819-25	7.8	32
95	Spray-on anti-soiling coatings that exhibit high transparency and mechanical durability 2014 ,		2
94	Graphene Nucleation Density on Copper: Fundamental Role of Background Pressure. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18919-18926	3.8	162
93	Large scale atmospheric pressure chemical vapor deposition of graphene. <i>Carbon</i> , 2013 , 54, 58-67	10.4	212
92	Infrared microcalorimetric spectroscopy using quantum cascade lasers. <i>Optics Letters</i> , 2013 , 38, 507-9	3	5
91	Review of pyroelectric thermal energy harvesting and new MEMs-based resonant energy conversion techniques 2012 ,		23
90	Characterization of hydrogen responsive nanoporous palladium films synthesized via a spontaneous galvanic displacement reaction. <i>Nanotechnology</i> , 2012 , 23, 465403	3.4	6
89	Detection of electromagnetic waves using charged cantilevers. <i>Applied Physics Letters</i> , 2012 , 100, 103108	3.4	3
88	Infrared imaging using arrays of SiO ₂ micromechanical detectors. <i>Optics Letters</i> , 2012 , 37, 3966-8	3	8
87	Electrical and thermal conductivity of low temperature CVD graphene: the effect of disorder. <i>Nanotechnology</i> , 2011 , 22, 275716	3.4	113
86	Standoff imaging of chemicals using IR spectroscopy 2011 ,		10
85	Role of hydrogen in chemical vapor deposition growth of large single-crystal graphene. <i>ACS Nano</i> , 2011 , 5, 6069-76	16.7	700

84	Development of MEMS based pyroelectric thermal energy harvesters 2011 ,		24
83	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
82	Sensor Science for National Security. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009 , 461-478	0.3	
81	Sorption-induced static bending of microcantilevers coated with viscoelastic material. <i>Journal of Applied Physics</i> , 2008 , 103, 064913	2.5	31
80	Arrays of SiO ₂ substrate-free micromechanical uncooled infrared and terahertz detectors. <i>Journal of Applied Physics</i> , 2008 , 104, 054508	2.5	28
79	Progress with MEMS based UGS (IR/THz) 2008 ,		3
78	Bimaterial Microcantilevers as a Hybrid Sensing Platform. <i>Advanced Materials</i> , 2008 , 20, 653-680	24	155
77	Facile hyphenation of gas chromatography and a microcantilever array sensor for enhanced selectivity. <i>Analytical Chemistry</i> , 2007 , 79, 364-70	7.8	23
76	Differentially ligand-functionalized microcantilever arrays for metal ion identification and sensing. <i>Analytical Chemistry</i> , 2007 , 79, 7062-8	7.8	32
75	Microcantilever sensors with chemically selective coatings of ionic liquids. <i>AIChE Journal</i> , 2007 , 53, 2726-2731	7.8	3
74	Independent component analysis of nanomechanical responses of cantilever arrays. <i>Analytica Chimica Acta</i> , 2007 , 584, 101-5	6.6	25
73	Development of a nanomechanical biosensor for analysis of endocrine disrupting chemicals. <i>Lab on A Chip</i> , 2007 , 7, 1184-91	7.2	15
72	Uncooled MEMS IR imagers with optical readout and image processing 2007 ,		7
71	Rapid Detection of Analytes with Improved Selectivity Using Coated Microcantilever Chemical Sensors and Estimation Theory 2007 ,		5
70	Uncooled infrared imaging using bimaterial microcantilever arrays 2006 ,		4
69	Uncooled infrared imaging using bimaterial microcantilever arrays. <i>Applied Physics Letters</i> , 2006 , 89, 073118	3.18	53
68	Chemical Sensors Based on Functionalized Microcantilever Arrays 2006 ,		1
67	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

66	Characterization of ligand-functionalized microcantilevers for metal ion sensing. <i>Analytical Chemistry</i> , 2005 , 77, 6601-8	7.8	33
65	Nanostructured cantilevers as nanomechanical immunosensors for cytokine detection. <i>Nanobiotechnology</i> , 2005 , 1, 237-244		10
64	Performance of uncooled microcantilever thermal detectors. <i>Review of Scientific Instruments</i> , 2004 , 75, 1134-1148	1.7	122
63	Non-contact current measurement with cobalt-coated microcantilevers. <i>Sensors and Actuators A: Physical</i> , 2004 , 112, 32-35	3.9	16
62	Cantilever transducers as a platform for chemical and biological sensors. <i>Review of Scientific Instruments</i> , 2004 , 75, 2229-2253	1.7	870
61	Micromechanical Sensors. <i>Nanostructure Science and Technology</i> , 2004 , 417-439	0.9	2
60	Response Signatures for Nanostructured, Optically-Probed, Functionalized Microcantilever Sensing Arrays. <i>Sensor Letters</i> , 2004 , 2, 238-245	0.9	14
59	Enhancing chemi-mechanical transduction in microcantilever chemical sensing by surface modification. <i>Ultramicroscopy</i> , 2003 , 97, 417-24	3.1	44
58	IR imaging using uncooled microcantilever detectors. <i>Ultramicroscopy</i> , 2003 , 97, 451-8	3.1	56
57	Detection and differentiation of biological species using microcalorimetric spectroscopy. <i>Ultramicroscopy</i> , 2003 , 97, 459-65	3.1	40
56	Feasibility of tunable MEMS photonic crystal devices. <i>Ultramicroscopy</i> , 2003 , 97, 473-9	3.1	20
55	Detection of anthrax simulants with microcalorimetric spectroscopy: <i>Bacillus subtilis</i> and <i>Bacillus cereus</i> spores. <i>Applied Optics</i> , 2003 , 42, 1757-62	1.7	26
54	Femtogram mass detection using photothermally actuated nanomechanical resonators. <i>Applied Physics Letters</i> , 2003 , 82, 2697-2699	3.4	241
53	Enantioselective sensors based on antibody-mediated nanomechanics. <i>Analytical Chemistry</i> , 2003 , 75, 2342-8	7.8	76
52	Detection of Explosive Compounds with the Use of Microcantilevers with Nanoporous Coatings. <i>Sensor Letters</i> , 2003 , 1, 25-32	0.9	34
51	An atomic force microscope-based investigation of vertical transport through GaAs/GaAlAs/InAlAs/GaAs step-barrier heterostructures. <i>Ultramicroscopy</i> , 2002 , 91, 133-8	3.1	3
50	Self-leveling uncooled microcantilever thermal detector. <i>Applied Physics Letters</i> , 2002 , 81, 1306-1308	3.4	46
49	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

48	Microcantilever transducers: a new approach in sensor technology. <i>Analytical Chemistry</i> , 2002 , 74, 568A-575A	5.75	140
47	Nanocantilever signal transduction by electron transfer. <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 369-73	1.3	10
46	Fabrication of quantum well microcantilever photon detectors. <i>Ultramicroscopy</i> , 2001 , 86, 191-206	3.1	18
45	Enhanced chemi-mechanical transduction at nanostructured interfaces. <i>Chemical Physics Letters</i> , 2001 , 336, 371-376	2.5	60
44	Gold Nano-Structures for Transduction of Biomolecular Interactions into Micrometer Scale Movements. <i>Biomedical Microdevices</i> , 2001 , 3, 35-44	3.7	79
43	Photomechanical chemical microsensors. <i>Sensors and Actuators B: Chemical</i> , 2001 , 76, 393-402	8.5	45
42	Sensing and actuating functionality of hybrid MEMS combining enhanced chemi-mechanical transduction with surface-enhanced Raman spectroscopy 2001 ,		3
41	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
40	Hybrid Nanostructured Microcantilevers for Enhanced Chemimechanical Transduction and Surface Enhanced Raman Spectroscopy 2001 , 450-452		
39	Optical readout of uncooled thermal detectors 2000 , 4130, 185		2
38	Micromechanical uncooled photon detectors 2000 , 3948, 80		7
37	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
36	Detection of infrared photons using the electronic stress in metal-semiconductor cantilever interfaces. <i>Ultramicroscopy</i> , 2000 , 82, 49-56	3.1	25
35	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
34	Ultrasensitive thermal sensors for the detection of explosives using calorimetric spectroscopy (CalSpec) 1999 ,		9
33	Detection of 2-mercaptoethanol using gold-coated micromachined cantilevers. <i>Sensors and Actuators B: Chemical</i> , 1999 , 61, 75-82	8.5	65
32	Detection of infrared photons using the electronic stress in metal-semiconductor interfaces 1999 ,		5
31	Photoinduced and thermal stress in silicon microcantilevers. <i>Applied Physics Letters</i> , 1998 , 73, 2319-2321	3.4	60

30	Electron attachment to photofragments and Rydberg states in laser-irradiated CCl ₂ F ₂ . <i>Journal of Applied Physics</i> , 1998 , 84, 3442-3450	2.5	5
29	Electron attachment to boron trichloride. <i>Journal of Applied Physics</i> , 1998 , 84, 5805-5807	2.5	3
28	Novel photon detection based on electronically induced stress in silicon 1998 , 3379, 173		5
27	Electron attachment to thermally excited trichlorotrifluoroethane (1, 1, 2-). <i>Journal Physics D: Applied Physics</i> , 1997 , 30, 2596-2602	3	2
26	Photophysical and electron attachment properties of ArF-excimer-laser irradiated H ₂ . <i>Physical Review A</i> , 1997 , 55, 4131-4142	2.6	29
25	Electron attachment to excited states of silane: Implications for plasma processing discharges. <i>Journal of Applied Physics</i> , 1997 , 81, 7715-7727	2.5	31
24	Optical and infrared detection using microcantilevers 1996 ,		9
23	Remote optical detection using microcantilevers. <i>Review of Scientific Instruments</i> , 1996 , 67, 3434-3439	1.7	84
22	Piezoresistive microcantilever optimization for uncooled infrared detection technology 1996 , 2817, 179		2
21	Uncooled thermal imaging using a piezoresistive microcantilever. <i>Applied Physics Letters</i> , 1996 , 69, 3277-3279	3.4	74
20	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
19	Remote infrared radiation detection using piezoresistive microcantilevers. <i>Applied Physics Letters</i> , 1996 , 69, 2986-2988	3.4	81
18	Photodetachment of SF ₆ ⁻ <i>Chemical Physics Letters</i> , 1995 , 239, 38-43	2.5	30
17	Photodetachment in the gaseous, liquid, and solid states of matter. <i>Journal of Chemical Physics</i> , 1994 , 101, 6728-6742	3.9	23
16	Response to [Comment on [Temperature-enhanced electron detachment from C ₆ F ₆ ⁻ negative ions]] <i>J. Chem. Phys.</i> 100, 6981 (1994)]. <i>Journal of Chemical Physics</i> , 1994 , 100, 6983-6983	3.9	
15	Effect of Temperature on the Electron Attachment and Detachment Properties of c-C ₄ F ₆ 1994 , 13-20		
14	Attachment of Low Energy Electrons to Hot SF ₆ Molecules 1994 , 23-30		1
13	Electron Attachment to Excited Molecules. <i>NATO ASI Series Series B: Physics</i> , 1994 , 415-442		4

12	Temperature dependence of electron attachment and detachment in SF ₆ and c-C ₄ F ₆ . <i>Journal of Chemical Physics</i> , 1993 , 99, 8607-8616	3.9	39
11	Temperature-enhanced electron detachment from C ₆ F ₆ ⁻ negative ions. <i>Journal of Chemical Physics</i> , 1993 , 98, 7875-7882	3.9	26
10	Effect of temperature on the attachment of slow (1 eV) electrons to CH ₃ Br. <i>Journal of Chemical Physics</i> , 1992 , 97, 9031-9035	3.9	35
9	Ionization coefficients in selected gas mixtures of interest to particle detectors. <i>Journal of Applied Physics</i> , 1992 , 71, 15-21	2.5	24
8	Effect of Temperature on the Dissociative and Nondissociative Electron Attachment to Freons. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992 , 96, 448-450		5
7	Temperature-enhanced autodetachment from c-C ₄ F ₆ [*] . <i>Chemical Physics Letters</i> , 1992 , 195, 329-332	2.5	6
6	Effect of vibrational excitation on electron transport in gases. <i>Chemical Physics Letters</i> , 1991 , 186, 11-14	2.5	9
5	Temperature Dependence of the Dissociative Electron Attachment to CH ₃ Cl and C ₂ H ₅ Cl 1991 , 35-42		1
4	Temperature-enhanced electron attachment to CH ₃ Cl. <i>Chemical Physics Letters</i> , 1990 , 168, 324-329	2.5	30
3	The ionization threshold of N,N,N,N-tetramethyl-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
2	Variation with temperature of the electron attachment to SO ₂ F ₂ . <i>Journal of Chemical Physics</i> , 1989 , 90, 2626-2630	3.9	17
1	Variation of the electron attachment to n-C ₄ F ₁₀ with temperature. <i>Journal of Chemical Physics</i> , 1987 , 86, 1982-1990	3.9	24