

Stephane Evoy

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.

89
papers

3,871
citations

32
h-index

61
g-index

94
ext. papers

4,304
ext. citations

4.2
avg. IF

5.25
L-index

#	Paper	IF	Citations
89	Use of uncoated magnetic beads to capture Mycobacterium smegmatis and Mycobacterium avium paratuberculosis prior detection by mycobacteriophage D29 and real-time-PCR. <i>Journal of Microbiological Methods</i> , 2022 , 197, 106490	2.8	
88	Al-Mo nanocomposite functionalization for membrane-based resonance detection of bovine Herpesvirus-1. <i>Sensors and Actuators A: Physical</i> , 2019 , 296, 186-191	3.9	3
87	Immobilization of Intact Phage and Phage-Derived Proteins for Detection and Biocontrol Purposes. <i>Methods in Molecular Biology</i> , 2019 , 1898, 89-105	1.4	0
86	From Bits and Pieces to Whole Phage to Nanomachines: Pathogen Detection Using Bacteriophages. <i>Annual Review of Food Science and Technology</i> , 2017 , 8, 305-329	14.7	21
85	Aryl Diazonium Chemistry for the Surface Functionalization of Glassy Biosensors. <i>Biosensors</i> , 2016 , 6,	5.9	8
84	Helium Ion Microscope-Assisted Nanomachining of Resonant Nanostrings. <i>Sensors</i> , 2016 , 16,	3.8	3
83	Diazonium Chemistry for the Bio-Functionalization of Glassy Nanostring Resonator Arrays. <i>Sensors</i> , 2015 , 15, 18724-41	3.8	4
82	A Review of Membrane-Based Biosensors for Pathogen Detection. <i>Sensors</i> , 2015 , 15, 14045-78	3.8	40
81	Low Temperature Reactive Sputtering of Thin Aluminum Nitride Films on Metallic Nanocomposites. <i>PLoS ONE</i> , 2015 , 10, e0133479	3.7	5
80	A review of piezoelectric polymers as functional materials for electromechanical transducers. <i>Smart Materials and Structures</i> , 2014 , 23, 033001	3.4	548
79	Mycobacteriophage lysin-mediated capture of cells for the PCR detection of Mycobacterium avium subspecies paratuberculosis. <i>Analytical Methods</i> , 2014 , 6, 5682-5689	3.2	4
78	Mycobacteriophage cell binding proteins for the capture of mycobacteria. <i>Bacteriophage</i> , 2014 , 4, e960346		7
77	Fabrication and characterization of aluminum-molybdenum nanocomposite membranes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 052002	1.3	2
76	A suggested classification for two groups of Campylobacter myoviruses. <i>Archives of Virology</i> , 2014 , 159, 181-90	2.6	42
75	Phage receptor binding protein-based magnetic enrichment method as an aid for real time PCR detection of foodborne bacteria. <i>Analyst, The</i> , 2013 , 138, 5619-26	5	42
74	Atomic layer deposition of TiN for the fabrication of nanomechanical resonators. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013 , 31, 021503	2.9	6
73	Large-scale arrays of nanomechanical sensors for biomolecular fingerprinting. <i>Sensors and Actuators B: Chemical</i> , 2013 , 187, 111-117	8.5	9

72	Deflection cantilever detection of interferon gamma. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 960-965	9.5	9
71	Bacteriophage tail-spike protein derivitized microresonator arrays for specific detection of pathogenic bacteria. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 410-416	8.5	14
70	Recent advances in bacteriophage based biosensors for food-borne pathogen detection. <i>Sensors</i> , 2013 , 13, 1763-86	3.8	249
69	Bacteriophage receptor binding protein based assays for the simultaneous detection of <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> . <i>PLoS ONE</i> , 2013 , 8, e69770	3.7	35
68	Fabrication of CMOS-compatible nanopillars for smart bio-mimetic CMOS image sensors 2012 ,		1
67	Bacteriophage based probes for pathogen detection. <i>Analyst, The</i> , 2012 , 137, 3405-21	5	101
66	Fabrication of nanoresonator biosensing arrays using nanoimprint lithography. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2012 , 11, 023013-1	0.7	3
65	Surface-immobilization of chromatographically purified bacteriophages for the optimized capture of bacteria. <i>Bacteriophage</i> , 2012 , 2, 15-24		42
64	Highly compliant static microcantilevers fabricated in gold nanocomposite materials. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 115022	2	3
63	Chemically immobilized T4-bacteriophage for specific <i>Escherichia coli</i> detection using surface plasmon resonance. <i>Analyst, The</i> , 2011 , 136, 486-92	5	130
62	Specific detection of <i>Campylobacter jejuni</i> using the bacteriophage NCTC 12673 receptor binding protein as a probe. <i>Analyst, The</i> , 2011 , 136, 4780-6	5	73
61	Fabrication of sub-10 nm silicon carbon nitride resonators using a hydrogen silsesquioxane mask patterned by electron beam lithography. <i>Microelectronic Engineering</i> , 2011 , 88, 2338-2341	2.5	17
60	2011 ,		2
59	Genome and proteome of <i>Campylobacter jejuni</i> bacteriophage NCTC 12673. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 8265-71	4.8	44
58	Oriented immobilization of bacteriophages for biosensor applications. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 528-35	4.8	89
57	Nanomachining and clamping point optimization of silicon carbon nitride resonators using low voltage electron beam lithography and cold development. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C6P36-C6P41	1.3	10
56	Resonant characteristics of ultranarrow SiCN nanomechanical resonators. <i>Journal of Applied Physics</i> , 2010 , 108, 014306	2.5	17
55	Bacteriophage tailspike proteins as molecular probes for sensitive and selective bacterial detection. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 131-8	11.8	92

54	Synthesis and characterization of TiOx nanowires using a novel silicon oxide support layer. <i>Nanotechnology</i> , 2009 , 20, 025602	3.4	7
53	Electromechanical properties of individual single-walled carbon nanotubes grown on focused-ion-beam patterned substrates. <i>Ultramicroscopy</i> , 2009 , 109, 167-71	3.1	2
52	Immobilization of bacteriophages on gold surfaces for the specific capture of pathogens. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3645-51	11.8	100
51	Nanocrystalline↔amorphous transitions in AlMo thin films: Bulk and surface evolution. <i>Acta Materialia</i> , 2009 , 57, 4296-4303	8.4	21
50	Single-crystal, Si nanotubes, and their mechanical resonant properties. <i>Nano Letters</i> , 2009 , 9, 1511-6	11.5	32
49	Electronic structure, binding energy, and solvation structure of the streptavidin-biotin supramolecular complex: ONIOM and 3D-RISM study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9958-67 ^{3,4}	2.4	25
48	Gas sensing properties of single conducting polymer nanowires and the effect of temperature. <i>Nanotechnology</i> , 2009 , 20, 434014	3.4	39
47	Specific detection of proteins using photonic crystal waveguides. <i>Optics Express</i> , 2008 , 16, 15949-57	3.3	91
46	Tailoring the microstructure and surface morphology of metal thin films for nano-electro-mechanical systems applications. <i>Nanotechnology</i> , 2008 , 19, 125705	3.4	14
45	Resonance properties and microstructure of ultracompliant metallic nanoelectromechanical systems resonators synthesized from Al ₈₂ at.%Mo amorphous-nanocrystalline metallic composites. <i>Applied Physics Letters</i> , 2008 , 92, 123108	3.4	9
44	Mechanical resonance of clamped silicon nanowires measured by optical interferometry. <i>Journal of Applied Physics</i> , 2008 , 103, 074304	2.5	65
43	Specific detection of proteins using nanomechanical resonators. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 613-617	8.5	32
42	Dielectrophoretically assembled polymer nanowires for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 55-59	8.5	65
41	Immobilization of biotinylated bacteriophages on biosensor surfaces. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 615-621	8.5	102
40	Low-stress silicon carbonitride for the machining of high-frequency nanomechanical resonators. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 33		18
39	Synthesis and characterization of Au@a nanocomposites for nanomechanical cantilever devices. <i>Nanotechnology</i> , 2007 , 18, 355303	3.4	11
38	Nano fabrication of conducting polymers for NO gas by Dip pen nanolithography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2253-6		
37	Tuning the resonant frequency of single-walled carbon nanotube bundle oscillators through electron-beam-induced cross-link formations. <i>Applied Physics Letters</i> , 2007 , 90, 081912	3.4	8

36	Electric tweezers: Experimental study of positive dielectrophoresis-based positioning and orientation of a nanorod. <i>Journal of Applied Physics</i> , 2007 , 102, 024913	2.5	32
35	Fabrication of nanoelectromechanical resonators using a cryogenic etching technique. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2769		1
34	Synthesis of Silicon Carbonitride for the Machining of Resonant Nanomechanical Biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 924, 1		
33	Sintering of Silver Nanoparticles for the Formation of High Temperature Interconnect Joints. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 942, 1		9
32	Metallic NEMS components fabricated from nanocomposite AlMo films. <i>Nanotechnology</i> , 2006 , 17, 3063-3070	3.4	204
31	Dielectrophoretic integration of nanodevices with CMOS VLSI circuitry. <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 101-109	2.6	20
30	Diameter-dependent electromechanical properties of GaN nanowires. <i>Nano Letters</i> , 2006 , 6, 153-8	11.5	239
29	Gallium nitride nanowires: polar surface controlled growth, ohmic contact patterning by focused ion-beam-induced direct Pt deposition and disorder effects, variable range hopping, and resonant electromechanical properties 2006 ,		3
28	Study of laser-induced self-oscillations in silicon nanomechanical resonators. <i>Journal of Applied Physics</i> , 2005 , 98, 084316	2.5	3
27	Synthesis and Characterization of Ultra-Fine Tin Oxide Fibers Using Electrospinning. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2059-2063	3.8	34
26	Theory of simultaneous control of orientation and translational motion of nanorods using positive dielectrophoretic forces. <i>Journal of Applied Physics</i> , 2005 , 98, 124314	2.5	12
25	Nanomechanical resonance studies of carbon nanotube peapod bundles. <i>Journal of Applied Physics</i> , 2005 , 98, 044301	2.5	16
24	Dielectrophoretic assembly of carbon nanofiber nanoelectromechanical devices. <i>IEEE Nanotechnology Magazine</i> , 2005 , 4, 570-575	2.6	11
23	Transmission-electron-microscopic studies of mechanical properties of single-walled carbon nanotube bundles. <i>Applied Physics Letters</i> , 2004 , 85, 4328	3.4	24
22	Active Photonic Crystal Devices in Self-Assembled Electro-Optic Polymeric Materials. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 817, 183		1
21	Dielectrophoretic assembly and integration of nanowire devices with functional CMOS operating circuitry. <i>Microelectronic Engineering</i> , 2004 , 75, 31-42	2.5	80
20	Nanoelectromechanical Systems. <i>Nanostructure Science and Technology</i> , 2004 , 389-416	0.9	1
19	Synthesis and characterization of tin oxide microfibrils electrospun from a simple precursor solution. <i>Semiconductor Science and Technology</i> , 2004 , 19, 1057-1060	1.8	31

18	Nanomechanical resonant structures in silicon nitride: fabrication, operation and dissipation issues. <i>Sensors and Actuators A: Physical</i> , 2002 , 101, 215-219	3.9	64
17	Electrofluidic Assembly of Nanoelectromechanical Systems. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 687, 1		1
16	Temperature-Dependent Internal Friction in Silicon Nanoelectromechanical Systems. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 657, 131		1
15	Thickness dependent binary behavior of elongated single-domain cobalt nanostructures. <i>Journal of Applied Physics</i> , 2000 , 87, 404-409	2.5	25
14	Scanning tunneling microscope induced luminescence of lithographically prepared Au dots. <i>Surface Science</i> , 2000 , 453, L299-L302	1.8	8
13	Parametric amplification in a torsional microresonator. <i>Applied Physics Letters</i> , 2000 , 77, 1545-1547	3.4	143
12	Temperature-dependent internal friction in silicon nanoelectromechanical systems. <i>Applied Physics Letters</i> , 2000 , 77, 2397-2399	3.4	89
11	Actuation and internal friction of torsional nanomechanical silicon resonators. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 3549		24
10	Nanofabrication and electrostatic operation of single-crystal silicon paddle oscillators. <i>Journal of Applied Physics</i> , 1999 , 86, 6072-6077	2.5	143
9	Measurement of mechanical resonance and losses in nanometer scale silicon wires. <i>Applied Physics Letters</i> , 1999 , 75, 920-922	3.4	254
8	Low-temperature scanning tunneling microscope-induced luminescence of an InGaN/GaN multiquantum well. <i>Applied Physics Letters</i> , 1999 , 74, 1457-1459	3.4	15
7	An Lrp-type transcriptional regulator from <i>Agrobacterium tumefaciens</i> condenses more than 100 nucleotides of DNA into globular nucleoprotein complexes. <i>Journal of Molecular Biology</i> , 1999 , 288, 811-824	6.5	40
6	Scanning Tunneling Microscope-Induced Luminescence Studies of Defects in GaN Layers and Heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 588, 19		1
5	Selective scanning tunneling microscope-induced light emission from self-assembled monolayer-covered Au surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 1438-1441	2.9	6
4	Laser induced deposition of tungsten and copper. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 45, 200-207	3.1	8
3	Cathodoluminescence and photoluminescence analysis of In _x Ga _{1-x} As/GaAs quantum well structures. <i>Applied Physics Letters</i> , 1996 , 68, 1259-1261	3.4	6
2	. <i>IEEE Transactions on Advanced Packaging</i> , 1995 , 18, 697-703		5
1	Dielectrophoretic integration of nanodevices with CMOS circuitry		1

