Annamaria Gerardino

List of Publications by Year
in descending order

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157	3,218	159525	182361
papers	citations	30	51
		h-index	g-index

158	158	158	4434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemotherapy-induced antitumor immunity requires formyl peptide receptor 1. Science, 2015, 350, 972-978.	6.0	367
2	Trapping of micrometre and sub-micrometre particles by high-frequency electric fields and hydrodynamic forces. Journal Physics D: Applied Physics, 1996, 29, 340-349.	1.3	152
3	3D Microfluidic model for evaluating immunotherapy efficacy by tracking dendritic cell behaviour toward tumor cells. Scientific Reports, 2017, 7, 1093.	1.6	130
4	Cross talk between cancer and immune cells: exploring complex dynamics in a microfluidic environment. Lab on A Chip, 2013, 13, 229-239.	3.1	126
5	Dissecting Effects of Anti-cancer Drugs and Cancer-Associated Fibroblasts by On-Chip Reconstitution of Immunocompetent Tumor Microenvironments. Cell Reports, 2018, 25, 3884-3893.e3.	2.9	118
6	Time-resolved and antibunching experiments on single quantum dots at 1300nm. Applied Physics Letters, 2006, 88, 131102.	1.5	101
7	Engineering of light confinement in strongly scattering disordered media. Nature Materials, 2014, 13, 720-725.	13.3	98
8	SAR optimization in a phased array radiofrequency hyperthermia system. IEEE Transactions on Biomedical Engineering, 1995, 42, 1201-1207.	2.5	92
9	Organs on chip approach: a tool to evaluate cancer -immune cells interactions. Scientific Reports, 2017, 7, 12737.	1.6	69
10	Cancer-driven dynamics of immune cells in a microfluidic environment. Scientific Reports, 2014, 4, 6639.	1.6	68
11	Single-photon experiments at telecommunication wavelengths using nanowire superconducting detectors. Applied Physics Letters, 2007, 91, 031106.	1.5	60
12	Spectral tuning and near-field imaging of photonic crystal microcavities. Physical Review B, 2008, 78, .	1.1	60
13	Combining Type I Interferons and 5-Aza-2â€²-Deoxycitidine to Improve Anti-Tumor Response against Melanoma. Journal of Investigative Dermatology, 2017, 137, 159-169.	0.3	60
14	Controlling the charge environment of single quantum dots in a photonic-crystal cavity. Physical Review B, 2009, 80, .	1.1	55
15	Magnetic Imaging in Photonic Crystal Microcavities. Physical Review Letters, 2010, 105, 123902.	2.9	52
16	A multidisciplinary study usingin vivotumor models and microfluidic cell-on-chip approach to explore the cross-talk between cancer and immune cells. Journal of Immunotoxicology, 2014, 11, 337-346.	0.9	48
17	Local tuning of photonic crystal nanocavity modes by laser-assisted oxidation. Applied Physics Letters, 2009, 95, .	1.5	45
18	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. Bioinspiration and Biomimetics, 2016, 11, 011001.	1.5	44

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19	Enhanced spontaneous emission in a photonic-crystal light-emitting diode. Applied Physics Letters, 2008, 93, .	1.5	42
20	Fabrication of Siteâ€Controlled Quantum Dots by Spatially Selective Incorporation of Hydrogen in Ga(AsN)/GaAs Heterostructures. Advanced Materials, 2011, 23, 2706-2710.	11.1	41
21	Near-field imaging of coupled photonic-crystal microcavities. Applied Physics Letters, 2009, 94, 151103.	1.5	40
22	Enhanced spontaneous emission rate from single InAs quantum dots in a photonic crystal nanocavity at telecom wavelengths. Applied Physics Letters, 2007, 91, .	1.5	38
23	Finite size effects in patterned magnetic permalloy films. Journal of Applied Physics, 2000, 87, 5633-5635.	1.1	37
24	Single-Photon Detection System for Quantum Optics Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 944-951.	1.9	37
25	Generalized Fano lineshapes reveal exceptional points in photonic molecules. Nature Communications, 2018, 9, 396.	5.8	37
26	Antibonding ground state in photonic crystal molecules. Physical Review B, 2012, 86, .	1.1	34
27	Tuning of photonic crystal cavities by controlled removal of locally infiltrated water. Applied Physics Letters, 2009, 95, 173112.	1.5	32
28	Single Photons on Demand from Novel Site-Controlled GaAsN/GaAsN:H Quantum Dots. Nano Letters, 2014, 14, 1275-1280.	4.5	32
29	Quantum dot photonic crystal nanocavities at 1300 nm for telecom-wavelength single-photon sources. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3693-3696.	0.8	31
30	Design and fabrication of on-fiber diffractive elements for fiber-waveguide coupling by means of e-beam lithography. Microelectronic Engineering, 2003, 67-68, 169-174.	1.1	30
31	Self-assembling of large ordered DNA arrays using superhydrophobic patterned surfaces. Nanotechnology, 2013, 24, 495302.	1.3	30
32	Polarization-sensitive near-field investigation of photonic crystal microcavities. Applied Physics Letters, 2009, 94, 163102.	1.5	29
33	Ultra-subwavelength phase-sensitive Fano-imaging of localized photonic modes. Light: Science and Applications, 2015, 4, e326-e326.	7.7	29
34	Optical detection of aflatoxins B in grained almonds using fluorescence spectroscopy and machine learning algorithms. Food Control, 2020, 112, 107073.	2.8	29
35	Local infiltration of planar photonic crystals with UV-curable polymers. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1562.	0.9	28
36	Mode tuning of photonic crystal nanocavities by photoinduced non-thermal oxidation. Applied Physics Letters, 2012, 100, 033116.	1.5	27

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37	An integrated superhydrophobic-plasmonic biosensor for mid-infrared protein detection at the femtomole level. Physical Chemistry Chemical Physics, 2015, 17, 21337-21342.	1.3	27
38	From Petri Dishes to Organ on Chip Platform: The Increasing Importance of Machine Learning and Image Analysis. Frontiers in Pharmacology, 2019, 10, 100.	1.6	26
39	Nanofluidic control of coupled photonic crystal resonators. Applied Physics Letters, 2010, 96, 141114.	1.5	24
40	Mode hybridization in photonic crystal molecules. Applied Physics Letters, 2010, 97, 063101.	1.5	23
41	Youngâ€™s Type Interference for Probing the Mode Symmetry in Photonic Structures. Physical Review Letters, 2011, 106, 143901.	2.9	23
42	Siteâ€Controlled Singleâ€Photon Emitters Fabricated by Nearâ€Field Illumination. Advanced Materials, 2018, 30, e1705450.	11.1	23
43	Mid-infrared nanoantenna arrays on silicon and CaF2 substrates for sensing applications. Microelectronic Engineering, 2012, 97, 197-200.	1.1	21
44	Plasticity of primary microglia on micropatterned geometries and spontaneous long-distance migration in microfluidic channels. BMC Neuroscience, 2013, 14, 121.	0.8	21
45	Light polarization control in strain-engineered GaAsN/GaAsN:H heterostructures. Applied Physics Letters, 2009, 94, 261905.	1.5	19
46	SnO2 sub-micron wires for gas sensors. Microelectronic Engineering, 2005, 78-79, 178-184.	1.1	18
47	A monolithic photonic microcantilever device for in situ monitoring of volatile compounds. Lab on A Chip, 2009, 9, 1261.	3.1	18
48	Magnetic exchange coupling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>IrMn</mml:mi><mml:mo>/</mml:mo><mml:mi>NiFe</mml:mi></mml:mrow></mml:math>From the continuous film to dot arrays. Physical Review B, 2015, 91, .	1.1	18
49	Tailoring the Photon Hopping by Nearest-Neighbor and Next-Nearest-Neighbor Interaction in Photonic Arrays. ACS Photonics, 2015, 2, 565-571.	3.2	18
50	Fabrication of semi-continuous profile Diffractive Optical Elements for beam shaping by Electron Beam Lithography. Microelectronic Engineering, 2000, 53, 325-328.	1.1	17
51	All-optical nano modulator on a silicon chip. Optics Express, 2007, 15, 9029.	1.7	17
52	Post-fabrication control of evanescent tunnelling in photonic crystal molecules. Applied Physics Letters, 2012, 101, 211108.	1.5	17
53	Wet sample confinement by superhydrophobic patterned surfaces for combined X-ray fluorescence and X-ray phase contrast imaging. Microelectronic Engineering, 2013, 111, 304-309.	1.1	17
54	Nonlinear optical tuning of photonic crystal microcavities by near-field probe. Applied Physics Letters, 2008, 93, .	1.5	16

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55	X-ray phase contrast microscopy at 300 nm resolution with laboratory sources. Optics Express, 2010, 18, 15998.	1.7	16
56	Comparative study of AZPN114 and SAL601 chemically amplified resists for electron beam nanolithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 3284.	1.6	15
57	Spin-wave frequency discretization in submicron rectangular prisms. Journal of Applied Physics, 2003, 93, 7595-7597.	1.1	15
58	Complete wetting of curved microscopic channels. Journal of Chemical Physics, 2006, 125, 144709.	1.2	15
59	Efficient fiber-to-waveguide coupling by a lens on the end of the optical fiber fabricated by focused ion beam milling. Microelectronic Engineering, 2004, 73-74, 397-404.	1.1	15
60	Effect of hydrogen incorporation temperature inin plane-engineered GaAsNâˆ•GaAsN:H heterostructures. Applied Physics Letters, 2008, 92, 221901.	1.5	14
61	Controlling the Cassie-to-Wenzel Transition: an Easy Route towards the Realization of Tridimensional Arrays of Biological Objects. Nano-Micro Letters, 2014, 6, 280-286.	14.4	14
62	Deep-subwavelength imaging of both electric and magnetic localized optical fields by plasmonic campanile nanoantenna. Scientific Reports, 2015, 5, 9606.	1.6	14
63	Broadband enhancement of light-matter interaction in photonic crystal cavities integrating site-controlled quantum dots. Physical Review B, 2020, 101, .	1.1	14
64	The spectral treasure house of miniaturized instruments for food safety, quality and authenticity applications: A perspective. Trends in Food Science and Technology, 2021, 110, 841-848.	7.8	14
65	Tuning optical modes in slab photonic crystal by atomic layer deposition and laser-assisted oxidation. Journal of Applied Physics, 2011, 109, .	1.1	13
66	Fabrication of electro optical nano modulator on silicon chip. Microelectronic Engineering, 2009, 86, 1099-1102.	1.1	12
67	Co/Pd-Based synthetic antiferromagnetic thin films on Au/resist underlayers: towards biomedical applications. Nanoscale, 2019, 11, 21891-21899.	2.8	12
68	High-frequency electric-field trap for micron and submicron particles. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 425-432.	0.4	11
69	3D microstructures fabricated by partially opaque X-ray lithography masks. Microelectronic Engineering, 2000, 53, 599-602.	1.1	10
70	Telecom-wavelength single-photon sources for quantum communications. Journal of Physics Condensed Matter, 2007, 19, 225005.	0.7	10
71	Single quantum dot emission by nanoscale selective growth of InAs on GaAs: A bottom-up approach. Applied Physics Letters, 2008, 93, 231904.	1.5	10
72	Nanoscale Tailoring of the Polarization Properties of Dilute-Nitride Semiconductors via H-Assisted Strain Engineering. Physical Review Applied, 2014, 2, .	1.5	10

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73	A lithographic approach for quantum dot-photonic crystal nanocavity coupling in dilute nitrides. Microelectronic Engineering, 2017, 174, 16-19.	1.1	10
74	Electron-Beam Study of Nanometer Performances of the SAL 601 Chemically Amplified Resist. Japanese Journal of Applied Physics, 1998, 37, 4632-4635.	0.8	9
75	Controlling DNA Bundle Size and Spatial Arrangement in Self-assembled Arrays on Superhydrophobic Surface. Nano-Micro Letters, 2015, 7, 146-151.	14.4	9
76	Aryl Sulfonates as Initiators for Extreme Ultraviolet Lithography: Applications in Epoxyâ€Based Hybrid Materials. ChemPhotoChem, 2018, 2, 425-432.	1.5	9
77	The role of chemical and microstructural inhomogeneities on interface magnetism. Nanotechnology, 2021, 32, 205701.	1.3	9
78	Electron-beam lithography patterning of magnetic nickel films. Microelectronic Engineering, 2001, 57-58, 931-937.	1.1	8
79	Design and prototyping of a micropropulsion system for microsatellites attitude control and orbit correction. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2793.	1.6	8
80	Patterned Magnetic Permalloy and Nickel Films: Fabrication by Electron Beam and X-Ray Lithographic Techniques. Japanese Journal of Applied Physics, 2002, 41, 5149-5152.	0.8	8
81	Quantum confinement effects in hydrogen-intercalatedGa1â^'xAsxNx-GaAs1â^'xNx:Hplanar heterostructures investigated by photoluminescence spectroscopy. Physical Review B, 2010, 81, .	1.1	8
82	Computationally Informed Design of a Multi-Axial Actuated Microfluidic Chip Device. Scientific Reports, 2017, 7, 5489.	1.6	8
83	MycoKey Round Table Discussions of Future Directions in Research on Chemical Detection Methods, Genetics and Biodiversity of Mycotoxins. Toxins, 2018, 10, 109.	1.5	8
84	High circular dichroism and robust performance in planar plasmonic metamaterial made of nano-comma-shaped resonators. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3079.	0.9	8
85	Time resolved measurements on low-density single quantum dots at 1300 nm. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3717-3721.	0.8	7
86	Exchange bias properties of 140 nm-sized dipolarly interacting circular dots with ultrafine IrMn and NiFe layers. Journal of Magnetism and Magnetic Materials, 2016, 400, 242-247.	1.0	7
87	Near-field speckle imaging of light localization in disordered photonic systems. Applied Physics Letters, 2017, 110, .	1.5	7
88	EUV polarimetry for thin film and surface characterization and EUV phase retarder reflector development. Review of Scientific Instruments, 2018, 89, 015108.	0.6	7
89	Vacuum ultraviolet quarter wave plates based on SnTe/Al bilayer: Design, fabrication, optical and ellipsometric characterization. Applied Surface Science, 2019, 463, 75-81.	3.1	7
90	Superconductor-insulator-normal tunnel junctions for on-chip measurement of the temperature. IEEE Transactions on Applied Superconductivity, 1997, 7, 3251-3254.	1.1	6

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91	Surface decoration of electrospun scaffolds by microcontact printing. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 401-406.	0.8	6
92	XeCl excimer laser with a continously tunable output pulsewidth. Optics Communications, 1993, 95, 336-344.	1.0	5
93	Laser assisted deposition of nanopatterned biomolecular layers. Microelectronic Engineering, 2003, 67-68, 923-929.	1.1	5
94	Multiple micro mirrors for X-ray focusing and collimation. Optics Communications, 2006, 259, 366-372.	1.0	5
95	Progress report on a 14.4-nm micro-exposure tool based on a laser-produced-plasma: debris mitigation system results and other issues. , 2007, , .		5
96	Laser-Assisted Fabrication of Biomolecular Sensing Microarrays. IEEE Transactions on Nanobioscience, 2007, 6, 242-248.	2.2	5
97	Fabrication and characterization of point defect photonic crystal nanocavities at telecom wavelength. Microelectronic Engineering, 2007, 84, 1480-1483.	1.1	5
98	Near-field mapping of quantum dot emission from single-photonic crystal cavity modes. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1965-1967.	1.3	5
99	Electron Beam Lithography Simulation for the Patterning of Extreme Ultraviolet Masks. Japanese Journal of Applied Physics, 2008, 47, 4909-4912.	0.8	5
100	All-optical integrated micro logic gate. Microelectronics Journal, 2011, 42, 472-476.	1.1	5
101	Fabrication of an electro-optical Bragg modulator based on plasma dispersion effect in silicon. Microelectronic Engineering, 2013, 105, 107-112.	1.1	5
102	<title>Excimer laser development and applications at the ENEA Frascati Centre</title>. , 1993, , .		4
103	X-Ray Lithography Patterning of Magnetic Materials and Their Characterization. Japanese Journal of Applied Physics, 2003, 42, 3802-3806.	0.8	4
104	Cavity-enhanced photonic crystal light-emitting diode at 1300 nm. Microelectronic Engineering, 2009, 86, 1093-1095.	1.1	4
105	A table top polarimetric facility for the EUV spectral range: implementations and characterization. Proceedings of SPIE, 2017, , .	0.8	4
106	Niobium microelectrodes for submicron particle confinement. Microsystem Technologies, 1995, 2, 8-10.	1.2	3
107	Characteristics of superconductor-insulator-normal tunnel junctions for on-chip electronic refrigeration. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1417-1422.	0.4	3
108	Study of nanometer resolution resist slope for the UVIII chemically amplified resist. Microelectronic Engineering, 1999, 46, 201-204.	1.1	3

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109	Towards a LED based on a photonic crystal nanocavity for single photon sources at telecom wavelength. Microelectronic Engineering, 2008, 85, 1162-1165.	1.1	3
110	Selective growth of InAs quantum dots on SiO₂-masked GaAs. Journal of Nanophotonics, 2009, 3, 031995.	0.4	3
111	Nanophotonic technologies for single-photon devices. Opto-electronics Review, 2010, 18, .	2.4	3
112	Magnetic dot clusters for application in magneto-electronics. Microelectronic Engineering, 2010, 87, 1614-1616.	1.1	3
113	The Gas Sensing Properties of Porphyrins-coated Laterally Grown ZnO Nanorods. Procedia Engineering, 2014, 87, 1039-1042.	1.2	3
114	Spatial steadiness of individual disorder modes upon controlled spectral tuning. APL Photonics, 2016, 1, 041301.	3.0	3
115	<title>Operation of a 10-L discharge XeCl laser</title>. , 1990, 1278, 17.		2
116	Sub-micron niobium electrodes for dielectrophoresis applications. Microelectronic Engineering, 1996, 30, 555-558.	1.1	2
117	Pattern matching, simulation, and metrology of complex layouts fabricated by electron beam lithography. Journal of Vacuum Science & Technology B, 2007, 25, 2307.	1.3	2
118	Scanning near-field optical microscopy of quantum dots in photonic crystal cavities. Journal of Physics: Conference Series, 2010, 245, 012040.	0.3	2
119	Publisherâ€™s Note: Magnetic Imaging in Photonic Crystal Microcavities [Phys. Rev. Lett.105, 123902 (2010)]. Physical Review Letters, 2010, 105, .	2.9	2
120	Planar chiral plasmonic 2D metamaterial: Design and fabrication. AIP Conference Proceedings, 2019, , .	0.3	2
121	Coupled Photonic Crystal Nanocavities as a Tool to Tailor and Control Photon Emission. Ceramics, 2019, 2, 34-55.	1.0	2
122	Extreme ultraviolet free-standing transmittance filters for high brilliance sources, based on Nb/Zr and Zr/Nb thin films on Si3N4 membranes: Design, fabrication, optical and structural characterization. Thin Solid Films, 2020, 695, 137739.	0.8	2
123	The ENEA discharge produced plasma extreme ultraviolet source and its patterning applications. , 2019, , .		2
124	The self-injected XeCl excimer laser. Applied Physics B: Lasers and Optics, 1995, 61, 619-628.	1.1	1
125	<title>Design and simulation of nested x-ray mirrors</title>. , 2005, , .		1
126	Single-photonics at telecom wavelengths using nanowire superconducting single photon detectors. , 2007, , .		1

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127	Ultra-miniaturized monolithically integrated polymer coated Si optoelectronic cantilevers for gas sensing applications. , 2009, , .		1
128	Experimental mapping of the spatial and angular emission patterns in photonic crystal microcavities. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1148-1150.	1.3	1
129	Simultaneous near field imaging of electric and magnetic field in photonic crystal nanocavities. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 251-255.	1.0	1
130	Controlling the Cassie-to-Wenzel Transition: an Easy Route towards the Realization of Tridimensional Arrays of Biological Objects. Nano-Micro Letters, 2014, 6, 280.	14.4	1
131	<title>Self-injected XeCl excimer laser</title>. , 1993, 1810, 451.		0
132	X-ray lithography patterning of magnetic material and their characterization. , 0, , .		0
133	Telecom-Wavelength Single-Photon Sources from Quantum Dots in Microcavities. , 2006, , .		0
134	Coupling of single InAs quantum dots at 1.3μm to a photonic crystal defect cavity mode. , 2007, , .		0
135	Electron beam lithography simulation for the patterning of EUV masks. , 2007, , .		0
136	Control of the Spontaneous Emission of Single InAs Quantum Dots at 1.3μm in Point-Defect Photonic Crystal Nanocavities. , 2007, , .		0
137	Purcell effect in micropillars with oxidized Bragg mirrors. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2433-2436.	0.8	0
138	Electrical injection of a photonic crystal nanocavity. , 2008, , .		0
139	Fabrication of 2D Photonic Crystal Nanocavity Membrane. AIP Conference Proceedings, 2008, , .	0.3	0
140	Enhancement of the recombination rate of InAs quantum dots in a photonic crystal light emitting diode. , 2008, , .		0
141	High resolution patterning and simulation on Mo/Si multilayer for EUV masks. Proceedings of SPIE, 2008, , .	0.8	0
142	Sub-wavelength probing and modification of photonic crystal nano-cavities. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 78-85.	1.0	0
143	Near field mapping of coupled photonic crystal microcavities. Journal of Physics: Conference Series, 2010, 210, 012059.	0.3	0
144	Origin of the non-resonant quantum dot-cavity coupling. , 2010, , .		0

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145	Tunable homo- and hetero-atomic photonic molecules. , 2010, , .		0
146	Integrated Photonic Micro Logic Gate. Lecture Notes in Computer Science, 2011, , 1-9.	1.0	0
147	Fluorescence enhancement from plasmonic Au templates. Microelectronic Engineering, 2011, 88, 1845-1848.	1.1	0
148	Ideal homoatomic and heteroatomic photonic crystal molecules. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 271-275.	1.0	0
149	Single photon emitters in dilute nitrides: Towards a determinist approach of quantum dot-photonic crystal nanocavity coupling. , 2015, , .		0
150	Quantum Dots: Site-Controlled Single-Photon Emitters Fabricated by Near-Field Illumination (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	11.1	0
151	Investigation of Bacterial Interactions Using Lab on Chips. , 2020, , .		0
152	Controlling Energy and Charge Environment of Single Excitons in a Photonic-Crystal Diode. , 2009, , .		0
153	Tuning and imaging random photonic modes. , 2015, , .		0
154	Dissecting Effects of Anti-cancer Drugs and of Cancer-associated Fibroblasts by On-chip Reconstitution of Immunocompetent Tumor Microenvironments. SSRN Electronic Journal, 0, , .	0.4	0
155	Silicon single mode waveguide modulator based upon switchable Bragg reflector. , 2018, , .		0
156	Spatially Selective Hydrogen Irradiation/Removal of Dilute Nitrides: A Versatile Nanofabrication Tool for Photonic Applications. , 2019, , .		0
157	Abstract A091: IL-33 activates antitumoral toxicity in eosinophils through stimulation of contact-dependent degranulation. , 2019, , .		0