Nicolas Izard

List of Publications by Year
in descending order

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49 papers	1,105 citations	471509 17 h-index	395702 33 g-index
49 all docs	49 docs citations	49 times ranked	1351 citing authors

#	Article	IF	Citations
1	Semiconductor-enriched single wall carbon nanotube networks applied to field effect transistors. Applied Physics Letters, 2008, 92, 243112.	3.3	139
2	Separation of Semiconducting from Metallic Carbon Nanotubes by Selective Functionalization with Azomethine Ylides. Journal of the American Chemical Society, 2006, 128, 6552-6553.	13.7	126
3	Intrinsic current gain cutoff frequency of 30GHz with carbon nanotube transistors. Applied Physics Letters, 2007, 90, 233108.	3.3	102
4	Optical limiting with soluble two-photon absorbing quadrupoles: Structureâ€“property relationships. Chemical Physics Letters, 2006, 417, 297-302.	2.6	96
5	Optical gain in carbon nanotubes. Applied Physics Letters, 2010, 96, .	3.3	53
6	Exfoliation of single-wall carbon nanotubes in aqueous surfactant suspensions: A Raman study. Physical Review B, 2005, 71, .	3.2	49
7	Influence of structure on the optical limiting properties of nanotubes. Optics Letters, 2005, 30, 1509.	3.3	46
8	Light Emission in Silicon from Carbon Nanotubes. ACS Nano, 2012, 6, 3813-3819.	14.6	46
9	Wavelength dependence of Pockels effect in strained silicon waveguides. Optics Express, 2014, 22, 22095.	3.4	46
10	Dispersion Engineering of Wide Slot Photonic Crystal Waveguides by Bragg-Like Corrugation of the Slot. IEEE Photonics Technology Letters, 2011, 23, 1298-1300.	2.5	43
11	Combination of carbon nanotubes and two-photon absorbers for broadband optical limiting. Chemical Physics Letters, 2004, 391, 124-128.	2.6	42
12	Optical microcavity with semiconducting single-wall carbon nanotubes. Optics Express, 2010, 18, 5740.	3.4	41
13	Room temperature direct gap electroluminescence from Ge/Si0.15Ge0.85 multiple quantum well waveguide. Applied Physics Letters, 2011, 99, .	3.3	37
14	Raman Scattering in Crystalline Oligothiophenes:Â A Comparison between Density Functional Theory and Bond Polarizability Model. Journal of Physical Chemistry B, 2006, 110, 24869-24875.	2.6	34
15	Enhancement of semiconducting single-wall carbon-nanotube photoluminescence. Optics Letters, 2009, 34, 3845.	3.3	30
16	Controlling carbon nanotube photoluminescence using silicon microring resonators. Nanotechnology, 2014, 25, 215201.	2.6	28
17	Enhanced light emission from carbon nanotubes integrated in silicon micro-resonator. Nanotechnology, 2015, 26, 345201.	2.6	26
18	Carbon nanotubes/fluorinated polymers nanocomposite thin films for electrical contacts lubrication. Surface Science, 2007, 601, 3687-3692.	1.9	18

#	Article	IF	Citations
19	Fermi level shift in carbon nanotubes by dye confinement. Carbon, 2019, 149, 772-780.	10.3	17
20	Integration of Carbon Nanotubes in Silicon Strip and Slot Waveguide Micro-Ring Resonators. IEEE Nanotechnology Magazine, 2016, 15, 583-589.	2.0	10
21	Photocurrent Quantum Yield of Semiconducting Carbon Nanotubes: Dependence on Excitation Energy and Exciton Binding Energy. Journal of Physical Chemistry C, 2014, 118, 18059-18063.	3.1	8
22	Morphology and anisotropy of thin conductive inkjet printed lines of single-walled carbon nanotubes. Materials Research Express, 2017, 4, 035037.	1.6	7
23	Hydroxide Ions Stabilize Open Carbon Nanotubes in Degassed Water. ACS Nano, 2018, 12, 8606-8615.	14.6	7
24	Broadband optical limiting optimization by combination of carbon nanotubes and two-photon absorbing chromophores in liquids. , 2003, , .		6
25	Nanocomposite thin films for surface protection in electrical contact applications. , 2007, , .		6
26	Wavelength Demultiplexer Based on a Two-Dimensional Graded Photonic Crystal. IEEE Photonics Technology Letters, 2011, 23, 1094-1096.	2.5	6
27	Electroabsorption study of index-defined semiconducting carbon nanotubes. EPJ Applied Physics, 2011, 55, 20401.	0.7	6
28	Near-Field Fano-Imaging of TE and TM Modes in Silicon Microrings. ACS Photonics, 2015, 2, 1712-1718.	6.6	6
29	Polymerâ€Đecorated Carbon Nanotubes as Transducers for Labelâ€Free Photonic Biosensors. Chemistry - A European Journal, 2015, 21, 18649-18653.	3.3	5
30	Nanocomposite Thin Films for Surface Protection in Electrical Contact Applications. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 358-364.	1.3	4
31	Comment on the paper â€œImproving Poor Manâ€™s Kramers-Kronig analysis and Kramers-Kronig constrained variational analysisâ€• Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 259, 119849.	3.9	4
32	Tuning of photoluminescence intensity and Fermi level position of individual single-walled carbon nanotubes by molecule confinement. Carbon, 2022, 186, 423-430.	10.3	3
33	Photoluminescence enhancement of semiconducting-carbon-nanotubes-based thin films. , 2010, , .		2
34	Pockels effect study in strained silicon Mach-Zenhder interferometer. , 2014, , .		2
35	Semiconducting carbon nanotubes exciton probed by electroabsorption spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 932-935.	2.7	1
36	Light emission at telecom wavelengths from single-walled carbon nanotubes. , 2013, , .		1

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37	Carbon nanotube photonics: using microring resonators for tailoring semiconducting carbon nanotubes photoluminescence. Journal of Nanophotonics, 2015, 10, 012513.	1.0	1
38	Group IV Photonics: Towards Carbon Nanotube Photonics. Journal of Nanoelectronics and Optoelectronics, 2013, 8, 3-8.	0.5	1
39	Carbon nanotubes based photonics: Towards the laser. , 2011, , .		0
40	Carbon nanotube for photonics: light emission in silicon and optical gain. , 2012, , .		0
41	Room temperature direct-gap electroluminescence in Ge/SiGe quantum well waveguides. Proceedings of SPIE, 2012, , .	0.8	0
42	Measurement of room temperature electroluminescence from Ge quantum well waveguides. , 2012, , .		0
43	Carbon nanotube photonics on silicon. , 2012, , .		0
44	Towards carbon nanotube-based integrated photonics devices. , 2012, , .		0
45	Monte Carlo simulations of carbon nanotube networks for optoelectronic applications. , 2014, , .		0
46	(Invited) Carbon Nanotube Based Photonics. ECS Transactions, 2014, 61, 89-95.	0.5	0
47	Monte Carlo simulations of carbon nanotube networks for optoelectronic applications. , 2014, , .		0
48	Coupling of semiconductor carbon nanotubes emission with silicon photonic micro ring resonators. , 2016, , .		0
49	Hybrid integration of carbon nanotubes into silicon slot photonic structures. , 2016, , .		0