

Fabio Pezzoli

List of Publications by Year in descending order

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38
papers

636
citations

567281

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all docs

39
docs citations

39
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Spin Injection and Spin Lifetime in Ge Heterostructures. <i>Physical Review Letters</i> , 2012, 108, 156603.	7.8	89
2	Towards a uniform and large-scale deposition of MoS ₂ nanosheets via sulfurization of ultra-thin Mo-based solid films. <i>Nanotechnology</i> , 2016, 27, 175703.	2.6	59
3	Raman spectroscopy of Si1-xGex epilayers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 124-125, 127-131.	3.5	45
4	Temperature-Dependent Photoluminescence Characteristics of GeSn Epitaxial Layers. <i>ACS Photonics</i> , 2016, 3, 2004-2009.	6.6	43
5	Highly Mismatched, Dislocation-Free SiGe/Si Heterostructures. <i>Advanced Materials</i> , 2016, 28, 884-888.	21.0	37
6	Ge Crystals on Si Show Their Light. <i>Physical Review Applied</i> , 2014, 1, .	3.8	34
7	Spin and energy relaxation in germanium studied by spin-polarized direct-gap photoluminescence. <i>Physical Review B</i> , 2013, 88, .	3.2	32
8	Strong confinement-induced engineering of the g factor and lifetime of conduction electron spins in Ge quantum wells. <i>Nature Communications</i> , 2016, 7, 13886.	12.8	28
9	Critical strain for Sn incorporation into spontaneously graded Ge/GeSn core/shell nanowires. <i>Nanoscale</i> , 2018, 10, 7250-7256.	5.6	28
10	Emission Engineering in Germanium Nanoresonators. <i>ACS Photonics</i> , 2015, 2, 53-59.	6.6	27
11	Valley-dependent spin polarization and long-lived electron spins in germanium. <i>Applied Physics Letters</i> , 2014, 105, 152404.	3.3	26
12	Single-Tear Proteomics: A Feasible Approach to Precision Medicine. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10750.	4.1	25
13	3D heteroepitaxy of mismatched semiconductors on silicon. <i>Thin Solid Films</i> , 2014, 557, 42-49.	1.8	18
14	Local uniaxial tensile strain in germanium of up to 4% induced by SiGe epitaxial nanostructures. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	18
15	Tear-Based Vibrational Spectroscopy Applied to Amyotrophic Lateral Sclerosis. <i>Analytical Chemistry</i> , 2021, 93, 16995-17002.	6.5	16
16	Optical tailoring of carrier spin polarization in Ge/SiGe multiple quantum wells. <i>Applied Physics Letters</i> , 2013, 102, 012408.	3.3	14
17	Disentangling nonradiative recombination processes in Ge micro-crystals on Si substrates. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	14
18	Progress towards Spin-Based Light Emission in Group IV Semiconductors. <i>Electronics (Switzerland)</i> , 2017, 6, 19.	3.1	14

#	ARTICLE	IF	CITATIONS
19	Optical orientation of electron spins and valence-band spectroscopy in germanium. <i>Physical Review B</i> , 2015, 91, .	3.2	11
20	Exceptional thermal strain reduction by a tilting pillar architecture: Suspended Ge layers on Si (001). <i>Materials and Design</i> , 2017, 116, 144-151.	7.0	9
21	Optically reconfigurable polarized emission in Germanium. <i>Scientific Reports</i> , 2018, 8, 11119.	3.3	9
22	Strain Engineering in Highly Mismatched SiGe/Si Heterostructures. <i>Materials Science in Semiconductor Processing</i> , 2017, 70, 117-122.	4.0	8
23	Continuous-Wave Magneto-Optical Determination of the Carrier Lifetime in Coherent Ge/Si Heterostructures. <i>Physical Review Applied</i> , 2020, 14, .	3.8	7
24	Composition profiling of inhomogeneous SiGe nanostructures by Raman spectroscopy. <i>Nanoscale Research Letters</i> , 2012, 7, 633.	5.7	6
25	Broadband control of the optical properties of semiconductors through site-controlled self-assembly of microcrystals. <i>Optics Express</i> , 2020, 28, 24981.	3.4	6
26	Structural investigations of the $\text{Si}_{1-x}\text{Ge}_x$ superstructure. <i>Journal of Applied Crystallography</i> , 2015, 48, 262-268.	4.5	3
27	Optical spin injection in SiGe heterostructures. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
28	Tailoring the spin polarization in Ge/SiGe multiple quantum wells. , 2013, , .		2
29	Ambient atmosphere laser-induced local ripening of MoS_2 nanoparticles. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13261-13266.	5.5	2
30	Elastic and Plastic Stress Relaxation in Highly Mismatched SiGe/Si Crystals. <i>MRS Advances</i> , 2016, 1, 3403-3408.	0.9	1
31	Photonic Band Gap and Light Routing in Self-Assembled Lattices of Epitaxial Ge/Si Microstructures. <i>Physical Review Applied</i> , 2021, 16, .	3.8	1
32	Optical Manipulation of the Rashba Effect in Germanium Quantum Wells. <i>Advanced Optical Materials</i> , 0, , 2201082.	7.3	1
33	Optical spin injection and spin lifetime in Ge heterostructures. , 2012, , .		0
34	Holes in germanium quantum wells: spin relaxation and temperature dynamics. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1238-1241.	0.8	0
35	Spin-resolved study of direct band-gap recombination in bulk Ge. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
36	Optical Spin Orientation in Ge-Based Heterostructures. <i>Topics in Applied Physics</i> , 2021, , 237-282.	0.8	0

#	ARTICLE	IF	CITATIONS
37	Magneto-optical investigation of the dynamics of spin-polarized carriers in GeSn heterostructures. , 2021, , .		0
38	Conductive n-type gallium nitride thin films prepared by sputter deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 042703.	2.1	0