Fariba Hatami

List of Publications by Year
in descending order

79 papers	3,479 citations	236925 25 h-index	133252 59 g-index
79 all docs	79 docs citations	79 times ranked	4790 citing authors

#	Article	IF	Citations
1	Monolayer semiconductor nanocavity lasers with ultralow thresholds. Nature, 2015, 520, 69-72.	27.8	713
2	Radiative recombination in typeâ€II GaSb/GaAs quantum dots. Applied Physics Letters, 1995, 67, 656-658.	3.3	313
3	Deterministic Coupling of a Single Nitrogen Vacancy Center to a Photonic Crystal Cavity. Nano Letters, 2010, 10, 3922-3926.	9.1	309
4	Strong Enhancement of Lightâ€“Matter Interaction in Graphene Coupled to a Photonic Crystal Nanocavity. Nano Letters, 2012, 12, 5626-5631.	9.1	248
5	Carrier dynamics in type-II GaSb/GaAs quantum dots. Physical Review B, 1998, 57, 4635-4641.	3.2	231
6	Controlling the spontaneous emission rate of monolayer MoS₂ in a photonic crystal nanocavity. Applied Physics Letters, 2013, 103, 181119.	3.3	194
7	Second harmonic generation in gallium phosphide photonic crystal nanocavities with ultralow continuous wave pump power. Optics Express, 2009, 17, 22609.	3.4	147
8	Control of two-dimensional excitonic light emission via photonic crystal. 2D Materials, 2014, 1, 011001.	4.4	144
9	Biomedical terahertz imaging with a quantum cascade laser. Applied Physics Letters, 2006, 88, 153903.	3.3	133
10	Nanocavity Integrated van der Waals Heterostructure Light-Emitting Tunneling Diode. Nano Letters, 2017, 17, 200-205.	9.1	129
11	A high-resolution spectrometer based on a compact planar two dimensional photonic crystal cavity array. Applied Physics Letters, 2012, 100, 231104.	3.3	73
12	Efficient Extraction of Zero-Phonon-Line Photons from Single Nitrogen-Vacancy Centers in an Integrated GaP-on-Diamond Platform. Physical Review Applied, 2016, 6, .	3.8	64
13	400%/W second harmonic conversion efficiency in 14 Î¼m-diameter gallium phosphide-on-oxide resonators. Optics Express, 2018, 26, 33687.	3.4	47
14	Second harmonic generation in GaP photonic crystal waveguides. Applied Physics Letters, 2011, 98, 263113.	3.3	44
15	Planar ordering of InP quantum dots on (1 0 0)In0.48Ga0.52P. Journal of Crystal Growth, 2000, 216, 26-32.	1.5	39
16	Radiative recombination from InP quantum dots on (100) GaP. Applied Physics Letters, 2001, 78, 2163-2165.	3.3	35
17	InSb and InSb:N multiple quantum dots. Applied Physics Letters, 2006, 89, 133115.	3.3	34
18	Frequency Control of Single Quantum Emitters in Integrated Photonic Circuits. Nano Letters, 2018, 18, 1175-1179.	9.1	34

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19	Photoluminescence sensitivity to methanol vapours of surface InP quantum dot: Effect of dot size and coverage. Sensors and Actuators B: Chemical, 2013, 189, 113-117.	7.8	31
20	Single-dot optical emission from ultralow density well-isolated InP quantum dots. Applied Physics Letters, 2008, 93, 143111.	3.3	30
21	Vapour sensing properties of InP quantum dot luminescence. Sensors and Actuators B: Chemical, 2012, 162, 149-152.	7.8	29
22	Large-scale GaP-on-diamond integrated photonics platform for NV center-based quantum information. Journal of the Optical Society of America B: Optical Physics, 2016, 33, B35.	2.1	29
23	Sum-frequency generation in doubly resonant GaP photonic crystal nanocavities. Applied Physics Letters, 2010, 97, 043103.	3.3	28
24	Inverse-designed photon extractors for optically addressable defect qubits. Optica, 2020, 7, 1805.	9.3	28
25	Tunable-wavelength second harmonic generation from GaP photonic crystal cavities coupled to fiber tapers. Optics Express, 2010, 18, 12176.	3.4	27
26	Lithographic positioning of fluorescent molecules on high-Q photonic crystal cavities. Applied Physics Letters, 2009, 95, 123113.	3.3	26
27	Selective Epitaxy of InP on Si and Rectification in Graphene/InP/Si Hybrid Structure. ACS Applied Materials & Interfaces, 2016, 8, 26948-26955.	8.0	23
28	InP quantum dots in GaP: Growth and luminescence. Materials Science in Semiconductor Processing, 2001, 4, 497-501.	4.0	22
29	Colour-tunable light-emitting diodes based on InP/GaP nanostructures. Nanotechnology, 2006, 17, 3703-3706.	2.6	22
30	Single-photon emitters based on epitaxial isolated InP/InGaP quantum dots. Applied Physics Letters, 2012, 100, .	3.3	18
31	Self-assembled chains of single layer InP/(In,Ga)P quantum dots on GaAs (001). Journal of Applied Physics, 2009, 105, 124308.	2.5	15
32	Green emission from InP-GaP quantum-dot light-emitting diodes. IEEE Photonics Technology Letters, 2006, 18, 895-897.	2.5	14
33	Optical emission from ultrathin strained type-II InP/GaP quantum wells. Applied Physics Letters, 2001, 79, 2886-2888.	3.3	13
34	Evidence of type-I direct recombination in InP/GaP quantum dots via magnetoluminescence. Applied Physics Letters, 2009, 95, 151105.	3.3	12
35	Controlled growth of InP/In0.48Ga0.52P quantum dots on GaAs substrate. Journal of Crystal Growth, 2011, 323, 228-232.	1.5	12
36	Electrical conductivity tensor of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:r mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> analyzed by van der Pauw measurements: Inherent anisotropy, off-diagonal element, and the impact of grain boundaries. Physical Review Materials, 2019, 3, .	2.4	12

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37	Comparison of MBE Growth of InSb on Si (001) and GaAs (001). Journal of Electronic Materials, 2008, 37, 1799-1805.	2.2	11
38	Highly polarized self-assembled chains of single layer InP/(In,Ga)P quantum dots. Applied Physics Letters, 2010, 97, 253113.	3.3	11
39	Lattice-engineered Si1-xGex-buffer on Si(001) for GaP integration. Journal of Applied Physics, 2014, 115, 103501.	2.5	10
40	Photonic crystal cavity-assisted upconversion infrared photodetector. Optics Express, 2015, 23, 12998.	3.4	10
41	Plasma-assisted molecular beam epitaxy of SnO(001) films: Metastability, hole transport properties, Seebeck coefficient, and effective hole mass. Physical Review Materials, 2020, 4, .	2.4	10
42	Mid-infrared luminescence of an InNAsSbâˆ•InAs single quantum well grown by molecular beam epitaxy. Applied Physics Letters, 2006, 89, 121912.	3.3	9
43	Chemical Sensitivity of Luminescent Epitaxial Surface InP Quantum Dots. Journal of Sensor Technology, 2013, 03, 1-5.	1.0	8
44	AlP/GaP distributed Bragg reflectors. Applied Physics Letters, 2013, 103, 031101.	3.3	8
45	Chemical sensitivity of InP/In0.48Ga0.52P surface quantum dots studied by time-resolved photoluminescence spectroscopy. Journal of Luminescence, 2015, 168, 54-58.	3.1	8
46	Precise electron beam-based target-wavelength trimming for frequency conversion in integrated photonic resonators. Optics Express, 2022, 30, 6921.	3.4	8
47	Low frequency noise in InSb/GaAs and InSb/Si channels. Applied Physics Letters, 2010, 97, .	3.3	7
48	Optical Properties of Dilute Nitride InN(As)Sb Quantum Wells and Quantum Dots Grown by Molecular Beam Epitaxy. Journal of Electronic Materials, 2008, 37, 1774-1779.	2.2	6
49	Transport properties of doped AlP for the development of conductive AlP/GaP distributed Bragg reflectors and their integration into light-emitting diodes. Applied Physics Letters, 2018, 112, .	3.3	6
50	Surface InP Quantum Dots: Effect of Morphology on the Photoluminescence Sensitivity. Procedia Engineering, 2012, 47, 1251-1254.	1.2	5
51	Surface InP/In0.48Ga0.52P quantum dots: Carrier recombination dynamics and their interaction with fluorescent dyes. Journal of Applied Physics, 2013, 114, 163510.	2.5	5
52	High Efficient THz Emission From Unbiased and Biased Semiconductor Nanowires Fabricated Using Electron Beam Lithography. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-7.	2.9	5
53	Vapour Sensitivity of InP Surface Quantum Dots. Key Engineering Materials, 0, 605, 177-180.	0.4	4
54	Deep-level noise characterization of MOVPE-grown Î² -Ga2O3. Applied Physics Letters, 2019, 115, .	3.3	4

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55	Narrow-gap ferromagnetic semiconductors (In,Mn)Sb on GaAs (001): growth and properties. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1492-1496.	0.8	3
56	Quasiresonant excitation of InP/InGaP quantum dots using second harmonic generated in a photonic crystal cavity. Applied Physics Letters, 2012, 101, .	3.3	3
57	Thermal annealing effect on the structural properties of epitaxial growth of GaP on Si substrate. Journal of Crystal Growth, 2015, 419, 42-46.	1.5	3
58	Thermal behavior and carrier injection of GaAs/GaP quantum dots light emitting diodes. Applied Physics Letters, 2017, 110, .	3.3	3
59	Second harmonic generation in GaP photonic crystal waveguides. , 2011, , .		2
60	Shape induced anisotropic elastic relaxation in InP/In0.48Ga0.52P quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 1139-1142.	2.7	1
61	Recombination dynamics in self-assembled InP/GaP quantum dots under high pressure. Physica Status Solidi (B): Basic Research, 2004, 241, 3263-3268.	1.5	1
62	Optical properties and carrier dynamics of InP quantum dots embedded in GaP. , 2004, , .		1
63	Bio-medical imaging with a terahertz quantum cascade laser. , 2006, , .		1
64	Growth and Characterization of InSb films on Si (001). Materials Research Society Symposia Proceedings, 2008, 1068, 1.	0.1	1
65	Photoluminescence of InP/GaP quantum dots under extreme conditions. High Pressure Research, 2009, 29, 488-494.	1.2	1
66	THz emission from InP and InGaAs nanowires fabricated using electron beam lithography. , 2015, , .		1
67	Room temperature green to red electroluminescence from (Al,Ga)As/GaP QDs and QWs. Proceedings of SPIE, 2016, , .	0.8	1
68	Light-emitting diodes based on InP quantum dots in GaP(100). , 2005, , .		0
69	Investigation of Optical Properties of Nitrogen Incorporated Sb based Quantum Well and Quantum Dots for Infrared Sensors Application. Materials Research Society Symposia Proceedings, 2006, 955, 1.	0.1	0
70	Investigation of Nitrogen Induced closely coupled Sb based Quantum Dots for Infrared Sensors Application. Materials Research Society Symposia Proceedings, 2006, 959, 1.	0.1	0
71	Comparative Analysis of Bio-Medical Imaging at 3.7 Terahertz with a High Power Quantum Cascade Laser. , 2006, , .		0
72	Tunable light sources in the visible and near infrared based on fiber taper coupled photonic crystal nanocavities. , 2010, , .		0

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73	A hybrid quantum photonic interface for solid state qubits. Proceedings of SPIE, 2011, , .	0.8	0
74	Distribution of Mn in ferromagnetic (In,Mn)Sb films grown on (001) GaAs using MBE. Journal of Crystal Growth, 2011, 323, 340-343.	1.5	0
75	A comparison of the low frequency noise in InSb grown on GaAs and Si by MBE. Journal of Crystal Growth, 2011, 323, 393-396.	1.5	0
76	Optical properties of wellâ€isolated single InP/InGaP quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1288-1291.	0.8	0
77	Biased THz emission from InGaAs nanowires fabricated using electron beam lithography. , 2016, , .		0
78	Probing High-Q Photonic Crystal Resonances with Fluorescent Molecules. , 2009, , .		0
79	Second Harmonic Generation in Gallium Phosphide Photonic Crystal Nanocavities with Ultralow CW Pump Power. , 2010, , .		0