

# Angela Thronhardt

## List of Publications by Year in descending order

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71  
papers

792  
citations

687220

13  
h-index

526166

27  
g-index

71  
all docs

71  
docs citations

71  
times ranked

753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clustering effects in Ga(AsBi). Applied Physics Letters, 2010, 96, .	1.5	120
2	Measurement of optical absorption by a single quantum dot exciton. Physical Review B, 2002, 65, .	1.1	115
3	Relation between dipole moment and radiative lifetime in interface fluctuation quantum dots. Physical Review B, 2002, 65, .	1.1	82
4	Quantum theory of phonon-assisted exciton formation and luminescence in semiconductor quantum wells. Physical Review B, 2000, 62, 2706-2720.	1.1	75
5	Nitrogen incorporation effects on gain properties of GalnNAs lasers: Experiment and theory. Applied Physics Letters, 2005, 86, 201117.	1.5	35
6	Nonequilibrium gain in optically pumped GalnNAs laser structures. Applied Physics Letters, 2004, 85, 5526-5528.	1.5	33
7	Microscopic theory of the optical properties of Ga(AsBi)/GaAs quantum wells. Semiconductor Science and Technology, 2008, 23, 125009.	1.0	29
8	Luminescence dynamics in Ga(AsBi). Applied Physics Letters, 2011, 98, 161104.	1.5	27
9	Time-resolved photoluminescence of type-I and type-II(Galn)As <sup>+</sup> Ga(NAs)heterostructures. Physical Review B, 2005, 71, .	1.1	21
10	An optimized digital alloy growth technique for accurate band gap engineering. Journal of Crystal Growth, 1999, 201-202, 163-165.	0.7	20
11	Numerical study of the influence of an antireflection coating on the operating properties of vertical-external-cavity surface-emitting lasers. Journal of Applied Physics, 2009, 106, .	1.1	16
12	Type I-type II transition in InGaAs <sup>+</sup> GaNAs heterostructures. Applied Physics Letters, 2005, 86, 081903.	1.5	15
13	Evidence of two disorder scales in Ga(AsBi). Physica Status Solidi (B): Basic Research, 2011, 248, 851-854.	0.7	15
14	Gain and carrier losses of (Galn)(NAs) heterostructures in the 1300 <sup>+</sup> 1550 nm range. Applied Physics Letters, 2005, 87, 261109.	1.5	12
15	Dynamic behavior of 1040nm semiconductor disk lasers on a nanosecond time scale. Applied Physics Letters, 2007, 90, 241102.	1.5	12
16	Microscopic calculation and measurement of the laser gain in a (Galn)Sb quantum well structure. Applied Physics Letters, 2008, 92, .	1.5	12
17	Field-dependent absorption in superlattices: Comparison of theory and experiment. Applied Physics Letters, 1998, 73, 2612-2614.	1.5	11
18	Coherent dynamics of photoexcited semiconductor superlattices in homogeneous electric fields. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 267-273.	1.3	11

#	ARTICLE	IF	CITATIONS
19	Interplay of phonon and disorder scattering in semiconductor quantum wells. <i>Physical Review B</i> , 2003, 68, .	1.1	11
20	Transient gain spectroscopy of (GaIn)As quantum wells: Experiment and microscopic analysis. <i>Applied Physics Letters</i> , 2007, 90, 251102.	1.5	11
21	Interband Transitions in InGaN Quantum Wells. , 0, , 145-167.		10
22	Interplay between coherent and incoherent scattering in quantum well secondary emission. <i>Physical Review B</i> , 2000, 62, 16802-16807.	1.1	8
23	Microscopic electroabsorption line shape analysis for Ga(AsSb) $\hat{\wedge}$ GaAs heterostructures. <i>Journal of Applied Physics</i> , 2007, 101, 033118.	1.1	8
24	Quantum modeling of semiconductor gain materials and vertical $\hat{\wedge}$ external $\hat{\wedge}$ cavity surface $\hat{\wedge}$ emitting laser systems. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 789-808.	0.7	8
25	Calculation of the excitonic absorption in parabolic semiconductor quantum-well structures. <i>Physical Review B</i> , 1998, 58, 1512-1516.	1.1	6
26	Microscopic Modeling of Quantum Well Gain Media for VECSEL Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 984-992.	1.9	6
27	Bismuth-containing III $\hat{\wedge}$ V semiconductors. , 2013, , 139-158.		6
28	A study of light-hole electro-absorption in AlGaAs parabolic quantum wells, using a novel method. <i>Superlattices and Microstructures</i> , 1999, 25, 425-429.	1.4	5
29	Microscopic modeling of the optical properties of semiconductor nanostructures. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2480-2483.	1.5	5
30	Anisotropic emission of interface fluctuation quantum dots. <i>European Physical Journal B</i> , 2002, 27, 571-576.	0.6	4
31	Gain and Absorption: Many-Body Effects. , 2005, , 1-25.		4
32	Carrier Dynamics in Quantum Well Lasers. <i>Optical and Quantum Electronics</i> , 2006, 38, 361-368.	1.5	4
33	Microscopic simulation of nonequilibrium features in quantum-well pumped semiconductor disk lasers. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	4
34	Microscopic simulation of semiconductor lasers at telecommunication wavelengths. <i>Optical and Quantum Electronics</i> , 2007, 38, 1005-1009.	1.5	3
35	Hole confinement in quantum islands in Ga(AsSb) $\hat{\wedge}$ GaAs $\hat{\wedge}$ (AlGa)As heterostructures. <i>Applied Physics Letters</i> , 2008, 92, 161101.	1.5	3
36	Hole system heating by ultrafast interband energy transfer in optically excited Ge/SiGe quantum wells. <i>Physical Review B</i> , 2012, 85, .	1.1	3

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37	Modeling mode competition in laser diodes. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	3
38	Disorder explains dual-band reflection spectrum in spherical colloidal photonic supraparticle assemblies. <i>Nano Select</i> , 2021, 2, 2461-2472.	1.9	3
39	Mode rolling effects in nitride laser diodes. <i>Engineering Research Express</i> , 2020, 2, 035036.	0.8	3
40	Coherent and Incoherent Contributions to Secondary Emission. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 227-230.	0.7	2
41	Many-Body Quantum Theory of Spontaneous Emission of Semiconductor Quantum Wells. <i>Physica Status Solidi A</i> , 2000, 178, 409-416.	1.7	2
42	Influence of chirp on the femtosecond excitation of a semiconductor microcavity laser. <i>Applied Physics Letters</i> , 2008, 92, 011107.	1.5	2
43	Phonon-assisted transitions and optical gain in indirect semiconductors. <i>Physical Review B</i> , 2010, 82, .	1.1	2
44	Do equidistant energy levels necessitate a harmonic potential?. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	2
45	Modeling of (GaIn)(NAs) and related laser media. , 2006, 6115, 286.		1
46	Modelling of the Laser Dynamics of an (Al,In)GaN Laser Diode. , 2018, , .		1
47	Nonequilibrium theory for semiconductor laser systems. , 2006, , .		1
48	Simultaneous influence of disorder and phonon scattering on coherent and incoherent quantum well secondary emission. , 0, , .		0
49	Microscopic modelling of equilibrium and nonequilibrium gain in optically pumped semiconductor lasers. , 0, , .		0
50	Microscopic theory of nonequilibrium effects in semiconductor laser structures. , 0, , .		0
51	Gain and photoluminescence dynamics in dilute nitride semiconductor laser materials. , 2005, , .		0
52	Microscopic modeling of radiative losses in semiconductor laser structures. , 0, , .		0
53	Linewidth enhancement factor in semiconductor quantum well In/sub 1-y/Ga/sub y/As and In/sub 1-y/Ga/sub y/As/sub 1-x/Nsub x/. , 0, , .		0
54	Equilibrium and nonequilibrium gain modelling in semiconductor lasers. , 0, , .		0

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55	Microscopic simulation of semiconductor lasers in the GaInNAs material system. , 2006, , .		0
56	Nanosecond to microsecond dynamics of 1040nm semiconductor disk lasers. , 2007, , .		0
57	Microscopic Nonequilibrium Simulations in Semiconductor Laser Structures. , 2007, , .		0
58	Transient gain spectroscopy of (GaIn) As quantum well structures. , 2007, , .		0
59	Optical pumping using chirped pulses of a vertical-cavity surface-emitting laser (VCSEL). , 2007, , .		0
60	Dynamic behavior of 1050nm semiconductor disk lasers on a nanosecond to microsecond time scale. , 2007, , .		0
61	Strong Lateral Confinement in Ga(AsSb)/GaAs/(AlGa)As Heterostructures. , 2007, , .		0
62	Nanosecond to microsecond dynamics of 1040nm semiconductor disk lasers. , 2007, , .		0
63	Analysis of in-well pumping of semiconductor lasers by microscopic gain calculations. , 2009, , .		0
64	Microscopic modelling and experimental results on VCSELS for optical and THz applications. , 2009, , .		0
65	Microscopic modeling of the optical properties of dilute nitride semiconductor gain materials. , 2009, , .		0
66	Ga(AsSb)/GaAs/(AlGa)As heterostructures: additional hole confinement due to quantum islands. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 411-414.	0.8	0
67	Performance changes of a vertical external cavity surface emitting laser by an intra cavity anti-reflex coating. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 572-575.	0.8	0
68	Holes in germanium quantum wells: spin relaxation and temperature dynamics. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1238-1241.	0.8	0
69	A Bi quantum film potential as an inverse problem. , 2020, , .		0
70	Kinetic Monte Carlo Simulation of Exciton Hopping: Urbach Tails in Gas Molecule Decorated MoSe 2. Physica Status Solidi (B): Basic Research, 2021, 258, 2100186.	0.7	0
71	Ultrafast Response of Vertical-Cavity Surface-Emitting Lasers (VCSELs) after Optical Pumping Using Chirped Pulses. , 2005, , .		0