

# Jörn M Hvam

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3558507/publications.pdf>

Version: 2024-02-01

264  
papers

9,220  
citations

31902

53  
h-index

56606

83  
g-index

266  
all docs

266  
docs citations

266  
times ranked

5301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Waveguiding in Surface Plasmon Polariton Band Gap Structures. <i>Physical Review Letters</i> , 2001, 86, 3008-3011.	2.9	455
2	Subpicosecond Time-Resolved Raman Spectroscopy of LO Phonons in GaAs. <i>Physical Review Letters</i> , 1985, 54, 2151-2154.	2.9	390
3	Ultra-low-loss inverted taper coupler for silicon-on-insulator ridge waveguide. <i>Optics Communications</i> , 2010, 283, 3678-3682.	1.0	261
4	Long Lived Coherence in Self-Assembled Quantum Dots. <i>Physical Review Letters</i> , 2001, 87, 227401.	2.9	211
5	Binding of Quasi-Two-Dimensional Biexcitons. <i>Physical Review Letters</i> , 1996, 76, 672-675.	2.9	188
6	Spectral hole-burning and carrier-heating dynamics in InGaAs quantum-dot amplifiers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2000, 6, 544-551.	1.9	161
7	Silicon-on-insulator polarization splitting and rotating device for polarization diversity circuits. <i>Optics Express</i> , 2011, 19, 12646.	1.7	159
8	Ultrafast gain dynamics in InAs-InGaAs quantum-dot amplifiers. <i>IEEE Photonics Technology Letters</i> , 2000, 12, 594-596.	1.3	156
9	Dispersive Transport and Recombination Lifetime in Phosphorus-Doped Hydrogenated Amorphous Silicon. <i>Physical Review Letters</i> , 1981, 46, 371-374.	2.9	146
10	Coherent generation and interference of excitons and biexcitons in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. <i>Physical Review B</i> , 1993, 47, 2413-2416.	1.1	130
11	Time-Resolved Speckle Analysis: A New Approach to Coherence and Dephasing of Optical Excitations in Solids. <i>Physical Review Letters</i> , 1999, 82, 1040-1043.	2.9	123
12	Dispersion of the second-order nonlinear susceptibility in ZnTe, ZnSe, and ZnS. <i>Physical Review B</i> , 1998, 58, 10494-10501.	1.1	120
13	Size dependence of the wavefunction of self-assembled InAs quantum dots from time-resolved optical measurements. <i>Physical Review B</i> , 2008, 77, .	1.1	119
14	Dephasing in InAs/GaAs quantum dots. <i>Physical Review B</i> , 1999, 60, 7784-7787.	1.1	117
15	Excitons, biexcitons, and phonons in ultrathin CdSe/ZnSe quantum structures. <i>Physical Review B</i> , 1999, 60, 8773-8782.	1.1	115
16	Direct observation of free-exciton thermalization in quantum-well structures. <i>Physical Review B</i> , 1998, 57, 1390-1393.	1.1	114
17	Higher-Order Photon Bunching in a Semiconductor Microcavity. <i>Science</i> , 2009, 325, 297-300.	6.0	106
18	Efficient and compact TE $\leftrightarrow$ TM polarization converter built on silicon-on-insulator platform with a simple fabrication process. <i>Optics Letters</i> , 2011, 36, 1059.	1.7	98

#	ARTICLE	IF	CITATIONS
19	Binding energy of two-dimensional biexcitons. <i>Physical Review B</i> , 1996, 53, 15909-15913.	1.1	96
20	High-efficiency, large-bandwidth silicon-on-insulator grating coupler based on a fully-etched photonic crystal structure. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	96
21	Exciton-exciton interaction and laser emission in high-purity ZnO. <i>Solid State Communications</i> , 1973, 12, 95-97.	0.9	91
22	Nature of nonlinear four-wave-mixing beats in semiconductors. <i>Physical Review B</i> , 1993, 48, 5720-5723.	1.1	86
23	Time-resolved optical characterization of InAs/InGaAs quantum dots emitting at 1.3 $\mu$ m. <i>Applied Physics Letters</i> , 2000, 76, 3430-3432.	1.5	85
24	Optical nonlinearities and phase coherence in CdSe studied by transient four-wave mixing. <i>IEEE Journal of Quantum Electronics</i> , 1989, 25, 904-912.	1.0	83
25	Exciton localization and interface roughness in growth-interrupted GaAs/AlAs quantum wells. <i>Physical Review B</i> , 2000, 61, 10322-10329.	1.1	82
26	Ultrafast local field dynamics in photoconductive THz antennas. <i>Applied Physics Letters</i> , 1993, 62, 1265-1267.	1.5	80
27	Optical anisotropy in vertically coupled quantum dots. <i>Physical Review B</i> , 1999, 60, 16680-16685.	1.1	80
28	Self-phase modulation of a single-cycle terahertz pulse by nonlinear free-carrier response in a semiconductor. <i>Physical Review B</i> , 2012, 85, .	1.1	79
29	Second-harmonic imaging of ferroelectric domain walls. <i>Applied Physics Letters</i> , 1998, 73, 1814-1816.	1.5	77
30	Widely tunable microwave phase shifter based on silicon-on-insulator dual-microring resonator. <i>Optics Express</i> , 2010, 18, 6172.	1.7	76
31	Binding-energy distribution and dephasing of localized biexcitons. <i>Physical Review B</i> , 1997, 55, R7383-R7386.	1.1	75
32	Exciton Interaction in Photoluminescence from ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 1974, 63, 511-517.	0.7	73
33	Temperature-Induced Wavelength Shift of Electron-Beam-Pumped Lasers from CdSe, CdS, and ZnO. <i>Physical Review B</i> , 1971, 4, 4459-4464.	1.1	72
34	Ultra-high-speed wavelength conversion in a silicon photonic chip. <i>Optics Express</i> , 2011, 19, 19886.	1.7	72
35	Dephasing in the quasi-two-dimensional exciton-biexciton system. <i>Physical Review B</i> , 2000, 61, 1692-1695.	1.1	70
36	The Biexciton Levels and Nonlinear Optical Transitions in ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 1983, 118, 179-189.	0.7	68

#	ARTICLE	IF	CITATIONS
37	Phonon-Induced Polariton Superlattices. <i>Physical Review Letters</i> , 2006, 97, 045501.	2.9	68
38	Probing long-lived dark excitons in self-assembled quantum dots. <i>Physical Review B</i> , 2010, 81, .	1.1	67
39	Well-width dependence of exciton-phonon scattering in $\text{In}_x\text{Ga}_{1-x}\text{As}$ /GaAs single quantum wells. <i>Physical Review B</i> , 1999, 59, 2215-2222.	1.1	66
40	Heterodyne pump-probe and four-wave mixing in semiconductor optical amplifiers using balanced lock-in detection. <i>Optics Communications</i> , 1999, 169, 317-324.	1.0	66
41	Optical Waveform Sampling and Error-Free Demultiplexing of 1.28 Tb/s Serial Data in a Nanoengineered Silicon Waveguide. <i>Journal of Lightwave Technology</i> , 2011, 29, 426-431.	2.7	66
42	Luminescence spectra and kinetics of disordered solid solutions. <i>Physical Review B</i> , 1999, 59, 12947-12972.	1.1	65
43	Elastic Scattering Dynamics of Cavity Polaritons: Evidence for Time-Energy Uncertainty and Polariton Localization. <i>Physical Review Letters</i> , 2002, 88, 047401.	2.9	65
44	Low-Jitter and High-Power 40-GHz All-Active Mode-Locked Lasers. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 975-977.	1.3	63
45	Ultrafast gain dynamics in quantum-dot amplifiers: theoretical analysis and experimental investigations. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 1115-1123.	1.0	63
46	Controllable delay of ultrashort pulses in a quantum dot optical amplifier. <i>Optics Express</i> , 2005, 13, 8032.	1.7	63
47	Optical dephasing in semiconductor mixed crystals. <i>Physical Review B</i> , 1992, 46, 4564-4581.	1.1	62
48	Structure and optical anisotropy of vertically correlated submonolayer InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2003, 82, 3859-3861.	1.5	62
49	Spectrally resolved four-wave mixing in semiconductors: Influence of inhomogeneous broadening. <i>Physical Review B</i> , 1994, 50, 15047-15055.	1.1	61
50	Dynamics of Excitons in CdS, CdSe, and $\text{CdS}_{1-x}\text{Se}_x$ . <i>Physica Status Solidi (B): Basic Research</i> , 1992, 172, 479-519.	0.7	59
51	Tunable Microwave Phase Shifter Based on Silicon-on-Insulator Microring Resonator. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 869-871.	1.3	59
52	Direct recording of optical gain spectra from ZnO. <i>Journal of Applied Physics</i> , 1978, 49, 3124-3126.	1.1	57
53	Frequency dependence of the radiative decay rate of excitons in self-assembled quantum dots: Experiment and theory. <i>Physical Review B</i> , 2009, 80, .	1.1	56
54	Optical gain and induced absorption from excitonic molecules in ZnO. <i>Solid State Communications</i> , 1978, 26, 987-990.	0.9	55

#	ARTICLE	IF	CITATIONS
55	Exciton scattering in quantum wells at low temperatures. <i>Physical Review B</i> , 1993, 47, 6827-6830.	1.1	55
56	1.28-Tb/s Demultiplexing of an OTDM DPSK Data Signal Using a Silicon Waveguide. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1762-1764.	1.3	53
57	Coherent and Incoherent Exciton Dynamics in Al <sub>1-x</sub> Ga <sub>x</sub> As/GaAs Multiple Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 173, 53-68.	0.7	52
58	Oxidation of hydrogen-passivated silicon surfaces by scanning near-field optical lithography using uncoated and aluminum-coated fiber probes. <i>Journal of Applied Physics</i> , 1997, 82, 49-53.	1.1	52
59	Stimulated Secondary Emission from Semiconductor Microcavities. <i>Physical Review Letters</i> , 2001, 86, 5791-5794.	2.9	52
60	Interwell excitons in GaAs/AlGaAs double quantum wells and their collective properties. <i>Journal of Experimental and Theoretical Physics</i> , 2000, 90, 1093-1104.	0.2	51
61	Submonolayer InGaAs/GaAs quantum-dot lasers with high modal gain and zero-linewidth enhancement factor. <i>Applied Physics Letters</i> , 2004, 85, 3259-3261.	1.5	51
62	Spontaneous emission from large quantum dots in nanostructures: Exciton-photon interaction beyond the dipole approximation. <i>Physical Review B</i> , 2012, 86, .	1.1	50
63	Localization-enhanced biexciton binding in semiconductors. <i>Physical Review B</i> , 1999, 59, 15405-15408.	1.1	48
64	Mixed biexcitons in single quantum wells. <i>Physical Review B</i> , 1999, 59, 4584-4587.	1.1	47
65	Optimization of the confinement energy of quantum-wire states in T-shaped GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As structures. <i>Physical Review B</i> , 1996, 54, 14595-14603.	1.1	46
66	Quantum kinetic exciton-LO-phonon interaction in CdSe. <i>Physical Review B</i> , 2000, 61, 1935-1940.	1.1	46
67	Measurement and calculation of the critical pulsewidth for gain saturation in semiconductor optical amplifiers. <i>Optics Communications</i> , 1999, 164, 51-55.	1.0	45
68	Spectral signatures of ħ <sup>5</sup> processes in four-wave mixing of homogeneously broadened excitons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 1318.	0.9	44
69	Gain dynamics and saturation in semiconductor quantum dot amplifiers. <i>New Journal of Physics</i> , 2004, 6, 178-178.	1.2	44
70	Ultra-high-speed optical serial-to-parallel data conversion by time-domain optical Fourier transformation in a silicon nanowire. <i>Optics Express</i> , 2011, 19, B825.	1.7	44
71	Nonlinear quantum beats of propagating polaritons. <i>Physical Review Letters</i> , 1993, 70, 327-330.	2.9	43
72	Resonant Rayleigh Scattering of Exciton-Polaritons in Multiple Quantum Wells. <i>Physical Review Letters</i> , 2000, 85, 650-653.	2.9	43

#	ARTICLE	IF	CITATIONS
73	Time-resolved four-wave mixing in InAs/InGaAs quantum-dot amplifiers under electrical injection. Applied Physics Letters, 2000, 76, 1380-1382.	1.5	43
74	Silicon Photonics for Signal Processing of Tbit/s Serial Data Signals. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 996-1005.	1.9	43
75	NONLINEAR QUANTUM BEAT SPECTROSCOPY IN SEMICONDUCTORS. International Journal of Modern Physics B, 1994, 08, 73-120.	1.0	42
76	Time-resolved nonlinear luminescence spectroscopy by picosecond excitation correlation. Applied Physics Letters, 1983, 43, 460-462.	1.5	40
77	Continuum contribution to excitonic four-wave mixing due to interaction-induced nonlinearities: A numerical study. Physical Review B, 1997, 55, 2456-2465.	1.1	40
78	Electron microscopic and optical investigations of the indium distribution in GaAs capped In <sub>x</sub> Ga <sub>1-x</sub> As islands. Applied Physics Letters, 1997, 71, 377-379.	1.5	40
79	Interaction-induced effects in the nonlinear coherent response of quantum-well excitons. Physical Review B, 1999, 60, 4454-4457.	1.1	40
80	Optical properties of InAlGaAs quantum wells: Influence of segregation and band bowing. Journal of Applied Physics, 1999, 86, 2584-2589.	1.1	40
81	One-to-six WDM multicasting of DPSK signals based on dual-pump four-wave mixing in a silicon waveguide. Optics Express, 2011, 19, 24448.	1.7	40
82	Binding energy and dephasing of biexcitons in In <sub>0.18</sub> Ga <sub>0.82</sub> As/GaAs single quantum wells. Physical Review B, 1999, 60, 4505-4508.	1.1	39
83	Interaction and dephasing of center-of-mass quantized excitons in wide ZnSe/Zn <sub>0.94</sub> Mg <sub>0.06</sub> Se quantum wells. Physical Review B, 1998, 57, 1791-1796.	1.1	38
84	Measuring the dynamics of second-order photon correlation functions inside a pulse with picosecond time resolution. Optics Express, 2010, 18, 20229.	1.7	38
85	Toward superlensing with metal-dielectric composites and multilayers. Applied Physics B: Lasers and Optics, 2010, 100, 93-100.	1.1	37
86	Continuum contribution to excitonic four-wave mixing due to interaction-induced nonlinearities. Physical Review B, 1996, 54, R14250-R14253.	1.1	35
87	Localization and wave-vector conservation for optical phonons in Al <sub>x</sub> Ga <sub>1-x</sub> As and thin layers of GaAs. Physical Review B, 1988, 38, 5776-5779.	1.1	34
88	Exciton diffusion in CdSe. Physical Review B, 1993, 47, 3582-3587.	1.1	34
89	Biexcitons or bipolaritons in a semiconductor microcavity. Physical Review B, 2000, 62, R7763-R7766.	1.1	34
90	Ultrarrow polaritons in a semiconductor microcavity. Applied Physics Letters, 2000, 76, 3262-3264.	1.5	33

#	ARTICLE	IF	CITATIONS
91	Measurement of pulse amplitude and phase distortion in a semiconductor optical amplifier: from pulse compression to breakup. IEEE Photonics Technology Letters, 2000, 12, 1674-1676.	1.3	33
92	Asymmetric GaAs/AlGaAs T wires with large confinement energies. Applied Physics Letters, 1996, 69, 3248-3250.	1.5	32
93	Phase diagram of a two-dimensional liquid in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As biased double quantum wells. Physical Review B, 2000, 61, 8420-8424.	1.1	31
94	Structural and electrooptical characteristics of quantum dots emitting at 1.3 $\mu$ m on gallium arsenide. IEEE Journal of Quantum Electronics, 2001, 37, 1050-1058.	1.0	31
95	Phase diagram of the Bose condensation of interwell excitons in GaAs/AlGaAs double quantum wells. JETP Letters, 2002, 76, 450-455.	0.4	31
96	Interwell excitons in GaAs superlattices. Physical Review B, 1996, 54, 10316-10319.	1.1	30
97	Coherent optical nonlinearities and phase relaxation of quasi-three-dimensional and quasi-two-dimensional excitons in ZnS <sub>x</sub> Se <sub>1-x</sub> /ZnSe structures. Physical Review B, 1997, 56, 12581-12588.	1.1	30
98	Dispersive transport and trap saturation in doped hydrogenated amorphous silicon. Solid State Communications, 1984, 50, 845-848.	0.9	29
99	Spectral Hole-Burning and Carrier-Heating Dynamics in Quantum-Dot Amplifiers: Comparison with Bulk Amplifiers. Physica Status Solidi (B): Basic Research, 2001, 224, 419-423.	0.7	29
100	High-performance 10- $\mu$ m all-active monolithic modelocked semiconductor lasers. Electronics Letters, 2004, 40, 735.	0.5	29
101	Transient four-wave mixing in T-shaped GaAs quantum wires. Physical Review B, 1999, 60, 16667-16674.	1.1	27
102	Large quantum dots with small oscillator strength. Physical Review B, 2010, 82, .	1.1	27
103	Heterodyne technique for measuring the amplitude and phase transfer functions of an optical modulator. IEEE Photonics Technology Letters, 2002, 14, 621-623.	1.3	26
104	New emission line in highly excited GaN. Journal of Luminescence, 1976, 12-13, 611-615.	1.5	25
105	Exciton dephasing in ZnSe quantum wires. Physical Review B, 1998, 57, 1797-1800.	1.1	25
106	Exciton dephasing and biexciton binding in CdSe/ZnSe islands. Physical Review B, 1999, 60, 10640-10643.	1.1	25
107	Polarization insensitive wavelength conversion in a dispersion-engineered silicon waveguide. Optics Express, 2012, 20, 16374.	1.7	25
108	Excitonic Molecule Transitions in ZnO. Physica Status Solidi (B): Basic Research, 1979, 93, 581-590.	0.7	24

#	ARTICLE	IF	CITATIONS
109	Dephasing of localized excitons in CdS <sub>1-x</sub> Se <sub>x</sub> mixed crystals. <i>Physical Review B</i> , 1991, 44, 3413-3416.	1.1	24
110	Direct evidence of reduced dynamic scattering in the lower polariton of a semiconductor microcavity. <i>Physical Review B</i> , 2000, 61, R13377-R13380.	1.1	24
111	Separation of coherent and incoherent nonlinearities in a heterodyne pump-probe experiment. <i>Optics Express</i> , 2000, 7, 107.	1.7	23
112	InGaAs/GaAs quantum-dot quantum-well heterostructure formed by submonolayer deposition. <i>Nanotechnology</i> , 2003, 14, 1259-1261.	1.3	23
113	Design of one-dimensional optical pulse-shaping filters by time-domain topology optimization. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	23
114	Optical Nonlinearity and Phase Coherence in CdSe and CdSe <sub>S</sub> <sup>1-x</sup> . <i>Physica Status Solidi (B): Basic Research</i> , 1988, 150, 387-391.	0.7	22
115	Spontaneous photon echo from bound excitons in CdSe. <i>Physical Review B</i> , 1991, 44, 3999-4001.	1.1	22
116	Measurements of exciton diffusion by degenerate four-wave mixing in CdS <sub>1-x</sub> Se <sub>x</sub> . <i>Physical Review B</i> , 1992, 46, 7528-7532.	1.1	22
117	Charged excitonic complexes in GaAs/Al <sub>0.35</sub> Ga <sub>0.65</sub> As p-i-n double quantum wells. <i>Physical Review B</i> , 1999, 60, 8897-8901.	1.1	22
118	Self-mixing interferometry in vertical-cavity surface-emitting lasers for nanomechanical cantilever sensing. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	22
119	(110) oriented GaAs/Al <sub>0.3</sub> Ga <sub>0.7</sub> As quantum wells for optimized T-shaped quantum wires. <i>Applied Physics Letters</i> , 1996, 69, 800-802.	1.5	21
120	Fiber coupled ultrafast scanning tunneling microscope. <i>Journal of Applied Physics</i> , 1997, 81, 2929-2934.	1.1	21
121	Linewidth Statistics of Single InGaAs Quantum Dot Photoluminescence Lines. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 49-53.	0.7	21
122	Optical Nonlinearity and Phase Coherence of Exciton-Biexciton Transition in CdSe. <i>Europhysics Letters</i> , 1987, 4, 839-843.	0.7	20
123	Collective state of interwell excitons in GaAs/AlGaAs double quantum wells under pulse resonance excitation. <i>JETP Letters</i> , 2002, 75, 200-204.	0.4	20
124	Thermalization of free excitons in ZnSe quantum wells. <i>Journal of Crystal Growth</i> , 1998, 184-185, 795-800.	0.7	19
125	Enhancement of exchange interaction in ultrathin CdS/ZnS quantum structures. <i>Solid State Communications</i> , 1998, 106, 653-657.	0.9	19
126	Collective behavior of interwell excitons in GaAs/AlGaAs double quantum wells. <i>JETP Letters</i> , 2000, 71, 117-122.	0.4	19



#	ARTICLE	IF	CITATIONS
127	Homogeneous linewidth of self-assembled III-V quantum dots observed in single-dot photoluminescence. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 1-6.	1.3	19
128	Carrier dynamics in submonolayer InGaAs-GaAs quantum dots. <i>Applied Physics Letters</i> , 2006, 89, 013113.	1.5	19
129	Dynamic Spatiotemporal Speed Control of Ultrashort Pulses in Quantum-Dot SOAs. <i>IEEE Journal of Quantum Electronics</i> , 2006, 42, 1047-1054.	1.0	19
130	15-THz Tunable Wavelength Conversion of Picosecond Pulses in a Silicon Waveguide. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1409-1411.	1.3	19
131	Coherence properties of exciton polariton OPO condensates in one and two dimensions. <i>New Journal of Physics</i> , 2012, 14, 075018.	1.2	19
132	Exciton diffusion and motion of electron-hole drops in Ge. <i>Physical Review B</i> , 1975, 11, 5053-5058.	1.1	18
133	Induced absorption and gain from high density excitons in CdS. <i>Solid State Communications</i> , 1978, 26, 373-376.	0.9	18
134	Coherent and Incoherent Exciton Dynamics in II-VI Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 173, 69-76.	0.7	18
135	Measuring voltage transients with an ultrafast scanning tunneling microscope. <i>Applied Physics Letters</i> , 1997, 70, 2625-2627.	1.5	18
136	Femtosecond differential transmission measurements on low temperature GaAs metal-semiconductor-metal structures. <i>Applied Physics Letters</i> , 1997, 70, 72-74.	1.5	18
137	Exciton-exciton collisions and conversion of interwell excitons in GaAs/AlGaAs superlattices. <i>JETP Letters</i> , 1997, 65, 656-662.	0.4	17
138	Localized Biexcitons in Quasi-2D and Quasi-3D Systems. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 111-118.	0.7	17
139	Binding of biexcitons in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As superlattices. <i>Physical Review B</i> , 1997, 55, 5284-5289.	1.1	16
140	Room-Temperature Near-Field Reflection Spectroscopy of Single Quantum Wells. <i>Physica Status Solidi A</i> , 1997, 164, 541-546.	1.7	16
141	Sub-wavelength imaging by depolarization in a reflection near-field optical microscope using an uncoated fiber probe. <i>Optics Communications</i> , 1998, 146, 277-284.	1.0	16
142	Transient measurements with an ultrafast scanning tunneling microscope on semiconductor surfaces. <i>Applied Physics Letters</i> , 1998, 72, 1644-1646.	1.5	16
143	Transient phase-space filling by resonantly excited exciton interactions in CuCl. <i>Physical Review Letters</i> , 1987, 58, 1363-1366.	2.9	15
144	Influence of random potential fluctuations on the interwell radiative recombination in biased double quantum well. <i>Europhysics Letters</i> , 1998, 41, 535-540.	0.7	15

#	ARTICLE	IF	CITATIONS
145	Exciton dynamics in GaAs/AlxGa1-xAs quantum wells. <i>Physical Review B</i> , 1999, 59, 10255-10260.	1.1	15
146	Spin Relaxation without Coherence Loss: Fine-Structure Splitting of Localized Excitons. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 349-353.	0.7	15
147	Second-harmonic imaging of semiconductor quantum dots. <i>Applied Physics Letters</i> , 2000, 77, 806-808.	1.5	15
148	Excitonic optical nonlinearities and transport in the layered compound semiconductor GaSe. <i>Physical Review B</i> , 1995, 51, 16651-16659.	1.1	14
149	Influence of the interface corrugation on the subband dispersions and the optical properties of (113)-oriented GaAs/AlAs superlattices. <i>Physical Review B</i> , 1996, 54, 10784-10799.	1.1	14
150	Optimizing the fabrication of aluminum-coated fiber probes and their application to optical near-field lithography. <i>Ultramicroscopy</i> , 1998, 71, 65-71.	0.8	14
151	Biexcitons in semiconductor microcavities. <i>Semiconductor Science and Technology</i> , 2003, 18, S351-S360.	1.0	14
152	Propagation of long-range surface plasmon polaritons in photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 2027.	0.9	14
153	Drift of Electron-Hole Drops in Exciton Density Gradients. <i>Physica Status Solidi (B): Basic Research</i> , 1974, 65, 531-536.	0.7	13
154	Stimulated two-photon emission from excitonic molecules in ZnO. <i>Solid State Communications</i> , 1978, 27, 1347-1350.	0.9	13
155	Spectral signatures of excitonic four-wave mixing signals in GaAs multiple quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 981.	0.9	13
156	Spatio-temporal imaging of voltage pulses with an ultrafast scanning tunneling microscope. <i>Applied Physics Letters</i> , 1997, 70, 2762-2764.	1.5	13
157	Femtosecond tunneling response of surface plasmon polaritons. <i>Applied Physics Letters</i> , 1998, 72, 3074-3076.	1.5	13
158	Dynamics of unidirectional phonon-assisted transport of photoexcited carriers in step-graded Inx(AI0.17Ga0.83)1-xAs/AI0.17Ga0.83As multiple quantum wells. <i>Physical Review B</i> , 2003, 67, .	1.1	13
159	Dynamic Dipole-Dipole Interactions Between Excitons in Quantum Dots of Different Sizes. <i>IEEE Nanotechnology Magazine</i> , 2004, 3, 318-327.	1.1	13
160	Nonlinear quantum beat spectroscopy of bound biexcitons in II-VI semiconductors. <i>Journal of Crystal Growth</i> , 1994, 138, 800-804.	0.7	12
161	Interwell excitons in GaAs multiple quantum wells and superlattices. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1995, 17, 1359-1366.	0.4	12
162	Localized excitons in quantum wells show spin relaxation without coherence loss. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 40-44.	1.3	12

#	ARTICLE	IF	CITATIONS
163	Biexcitonic Bound and Continuum States of Homogeneously and Inhomogeneously Broadened Exciton Resonances. <i>Physica Status Solidi A</i> , 2002, 190, 167-174.	1.7	12
164	Thermoplastic microcantilevers fabricated by nanoimprint lithography. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 015009.	1.5	12
165	Terahertz pulses from semiconductor-air interfaces. <i>Applied Physics Letters</i> , 1992, 61, 1372-1374.	1.5	11
166	Nanoroughness localization of excitons in GaAs multiple quantum wells studied by transient four-wave mixing. <i>Physical Review B</i> , 1995, 51, 7977-7980.	1.1	11
167	Second-harmonic scanning optical microscopy of semiconductor quantum dots. <i>Optics Communications</i> , 2001, 189, 305-311.	1.0	11
168	Biexciton Binding Energy in ZnSe Quantum Wells and Quantum Wires. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 231, 11-18.	0.7	11
169	Spontaneous and stimulated emission from CdSe at high excitation levels. <i>Journal of Physics and Chemistry of Solids</i> , 1971, 32, 2193-2199.	1.9	10
170	Size distribution of electron-hole drops in Ge. <i>Solid State Communications</i> , 1974, 15, 929-932.	0.9	9
171	Nonlinear Quantum Beats of Excitons in CdSe. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 173, 91-98.	0.7	9
172	Exciton dynamics in CdSe. <i>Journal of Luminescence</i> , 1992, 53, 317-320.	1.5	9
173	Ultrafast nonlinear optics in GaAs/AlGaAs quantum wells. <i>Physica Scripta</i> , 1994, T54, 181-186.	1.2	9
174	Interwell radiative recombination in the presence of random potential fluctuations in GaAs/AlGaAs biased double quantum wells. <i>JETP Letters</i> , 1998, 67, 613-620.	0.4	9
175	Long All-Active Monolithic Mode-Locked Lasers With Surface-Etched Bragg Gratings. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1723-1725.	1.3	9
176	Optimization of VCSELs for Self-Mixing Sensing. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 667-669.	1.3	9
177	Picosecond transient gratings in CdS <sub>1-x</sub> Se <sub>x</sub> mixed crystals. <i>Journal of Crystal Growth</i> , 1990, 101, 678-682.	0.7	8
178	Luminescence dynamics in type-II GaAs/AlAs superlattices near the type-I to type-II crossover. <i>Physical Review B</i> , 1996, 54, 14589-14594.	1.1	8
179	Nonlinear Response of Localized Excitons: Effects of the Excitation-Induced Dephasing. <i>Physica Status Solidi A</i> , 1997, 164, 61-65.	1.7	8
180	Polarization-resolved imaging with a reflection near-field optical microscope. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999, 16, 2649.	0.8	8

#	ARTICLE	IF	CITATIONS
181	Seeding of Polariton Stimulation in a Homogeneously Broadened Microcavity. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 115-120.	0.7	8
182	Long coherence times in self-assembled semiconductor quantum dots. <i>Superlattices and Microstructures</i> , 2002, 31, 97-105.	1.4	8
183	Properties of InGaAs quantum dot saturable absorbers in monolithic mode-locked lasers. , 0, , .		8
184	Micromanipulation of organic nanofibers for blue light emitting microstructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1459-1463.	0.8	8
185	Coherent spin dynamics of an interwell excitonic gas in GaAs/AlGaAs coupled quantum wells. <i>Physical Review B</i> , 2006, 73, .	1.1	8
186	Build up of off-diagonal long-range order in microcavity exciton-polaritons across the parametric threshold. <i>Optics Express</i> , 2013, 21, 10792.	1.7	8
187	Optical Gain and Induced Absorption in High-Density Exciton System in CuCl. <i>Physica Status Solidi (B): Basic Research</i> , 1980, 101, 363-372.	0.7	7
188	Highly confined T-shaped quantum wires. <i>Superlattices and Microstructures</i> , 1997, 22, 217-220.	1.4	7
189	Measuring Excitonic Coherence in Nanostructures: Time-Resolved Speckle Analysis versus Four-Wave Mixing. <i>Physica Status Solidi A</i> , 2000, 178, 13-20.	1.7	7
190	Dephasing and interaction of excitons in CdSe/ZnSe islands. <i>Journal of Crystal Growth</i> , 2000, 214-215, 747-751.	0.7	7
191	Long-time luminescence kinetics of localized excitons and conduction band edge smearing in ZnSe(1-x)Te solid solutions. <i>JETP Letters</i> , 2000, 72, 320-323.	0.4	7
192	Instantaneous Rayleigh scattering from excitons localized in monolayer islands. <i>Physical Review B</i> , 2000, 61, R10555-R10558.	1.1	7
193	Enhanced confinement energy in strained asymmetric T-shaped quantum wires. <i>Journal of Crystal Growth</i> , 2001, 227-228, 966-969.	0.7	7
194	Ultrashort pulse-propagation effects in a semiconductor optical amplifier: microscopic theory and experiment. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001, 7, 694-702.	1.9	7
195	Short exciton radiative lifetime in submonolayer InGaAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2008, 92, 063103.	1.5	7
196	Transverse and longitudinal relaxations of excitons and biexcitons in CdSe. <i>Journal of Luminescence</i> , 1987, 38, 76-78.	1.5	6
197	Picosecond spectroscopy of exciton-biexciton transitions in CdSe. <i>Journal of Crystal Growth</i> , 1992, 117, 763-767.	0.7	6
198	Stokes and anti-Stokes photoluminescence towards five different In <sub>x</sub> (Al <sub>0.17</sub> Ga <sub>0.83</sub> ) <sub>1-x</sub> As/Al <sub>0.17</sub> Ga <sub>0.83</sub> As quantum wells. <i>Journal of Applied Physics</i> , 2005, 98, 083527.	1.1	6

#	ARTICLE	IF	CITATIONS
199	Low-noise monolithic mode-locked semiconductor lasers through low-dimensional structures. Proceedings of SPIE, 2008, , .	0.8	6
200	Stimulated emission and optical gain in dense exciton systems in CdS. Journal of Luminescence, 1979, 18-19, 312-316.	1.5	5
201	Studies of high-speed optical switching in CdSe. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1225.	0.9	5
202	Dephasing and energy relaxation of localized excitons in CdS $_{1-x}$ Se $_x$ mixed crystals. Journal of Crystal Growth, 1992, 117, 778-782.	0.7	5
203	MBE growth and characterization of high purity GaAs/AlGaAs on the (110) surface of GaAs. Microelectronics Journal, 1995, 26, 767-773.	1.1	5
204	Direct and spatially indirect excitons in GaAs/AlGaAs superlattices in strong magnetic fields. Journal of Experimental and Theoretical Physics, 1997, 85, 601-608.	0.2	5
205	Dynamics of excitonic states in GaAs/AlGaAs quantum wells. JETP Letters, 1997, 66, 144-150.	0.4	5
206	Transient measurements with an ultrafast scanning tunneling microscope. Applied Physics A: Materials Science and Processing, 1998, 66, S23-S26.	1.1	5
207	3D versus 1D Quantum Confinement in Coherently Strained CdS/ZnS Quantum Structures. Physica Status Solidi (B): Basic Research, 1998, 206, 501-506.	0.7	5
208	Direct characterization of ultraviolet-light-induced refractive index structures by scanning near-field optical microscopy. IEEE Photonics Technology Letters, 1998, 10, 848-850.	1.3	5
209	Image Formation in Second-Harmonic Near-Field Microscopy. Physica Status Solidi A, 1999, 175, 331-336.	1.7	5
210	Directional phonon-assisted cascading of photoexcited carriers in stepped In $_x$ (Al $_{0.17}$ Ga $_{0.83}$ ) $_2$ As/Al $_{0.17}$ Ga $_{0.83}$ As multiple quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 182-185.	1.3	5
211	Long luminescence lifetime in self-assembled InGaAs/GaAs quantum dots at room temperature. Applied Physics Letters, 2008, 93, .	1.5	5
212	Polarized emission in polariton condensates: Switching in a one-dimensional natural trap versus inversion in two dimensions. Physical Review B, 2013, 88, .	1.1	5
213	Many-body effects in type-II quantum-well and quantum-well-wire superlattices. Superlattices and Microstructures, 1994, 15, 47.	1.4	4
214	Thermalization of Hot Free Excitons in ZnSe-Based Quantum Wells. Physica Status Solidi (B): Basic Research, 1997, 204, 195-197.	0.7	4
215	Magnetophonon resonance in photoluminescence excitation spectra of magnetoexcitons in GaAs/Al $_{0.3}$ Ga $_{0.7}$ As superlattice. Physical Review B, 2000, 62, 2743-2750.	1.1	4
216	Influence of <i>in situ</i> annealing on carrier dynamics in InGaAs/GaAs quantum dots. Nanotechnology, 2007, 18, 325401.	1.3	4

#	ARTICLE	IF	CITATIONS
217	On the interpretation of wave function overlaps in quantum dots. Physica Status Solidi (B): Basic Research, 2011, 248, 855-858.	0.7	4
218	RECOMBINATION OF PHOTOGENERATED CARRIERS IN DOPED HYDROGENATED AMORPHOUS SILICON. Journal De Physique Colloque, 1981, 42, C4-551-C4-554.	0.2	4
219	Carrier relaxation in amorphous silicon with optical bias. Journal of Non-Crystalline Solids, 1985, 77-78, 611-614.	1.5	3
220	Picosecond coherent light scattering in the exciton-biexciton resonance of CdSe. Journal of Luminescence, 1988, 40-41, 529-530.	1.5	3
221	Coherent dynamics of interwell excitons in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As superlattices. Physical Review B, 1997, 55, 7743-7748.	1.1	3
222	Interband coherence in semiconductors; excitons and beyond. Journal of Luminescence, 1997, 72-74, 25-28.	1.5	3
223	Binding energy of two-dimensional biexcitons in type-II superlattices. Journal of Luminescence, 1997, 72-74, 393-394.	1.5	3
224	High-resolution spectroscopy of matrix-isolated fullerene molecules. Journal of Luminescence, 1997, 72-74, 457-458.	1.5	3
225	FIR Induced Intrinsic Exciton Transitions in GaAs/AlGaAs Superlattices. Physica Status Solidi A, 1997, 164, 557-560.	1.7	3
226	Interwell excitons in GaAs superlattices. Superlattices and Microstructures, 1997, 21, 587-590.	1.4	3
227	Interaction-induced dephasing of excitons in wide ZnSe/ZnMgSe single quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 82-86.	1.3	3
228	Coherent versus incoherent dynamics in InAs quantum-dot active wave guides. Journal of Applied Physics, 2001, 89, 6542-6544.	1.1	3
229	Effect of annealing on the structure and optical properties of InGaAs/GaAs quantum dots. Journal of Crystal Growth, 2003, 251, 177-180.	0.7	3
230	Design and evaluation of mode-locked semiconductor lasers for low noise and high stability (Invited) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 3		3
231	Ultrafast dynamics of quantum-dot semiconductor optical amplifiers. Journal of Materials Science: Materials in Electronics, 2007, 18, 51-55.	1.1	3
232	Lambda shifted photonic crystal cavity laser. Applied Physics Letters, 2010, 97, 191109.	1.5	3
233	Partial saturation of the conduction band tail in doped a-Si:H. Solid State Communications, 1988, 65, 415-417.	0.9	2
234	Coherent nonlinear optical resonances in II-VI semiconductors. , 1990, , .		2

#	ARTICLE	IF	CITATIONS
235	Photon echo, dephasing and recombination of bound excitons in CdSe. Journal of Crystal Growth, 1992, 117, 773-777.	0.7	2
236	Ultrafast exciton dynamics in semiconductors: Effects of disorder and confinement. Pure and Applied Chemistry, 1995, 67, 401-408.	0.9	2
237	Influence of inhomogeneous broadening on spectrally resolved four-wave mixing in semiconductors. Physica Status Solidi (B): Basic Research, 1995, 188, 465-472.	0.7	2
238	Influence of the corrugation on the optical properties of (1 1 3) oriented GaAs/AlAs superlattices. Journal of Luminescence, 1997, 72-74, 353-354.	1.5	2
239	Direct and spatially indirect excitons in GaAs/AlGaAs superlattices in strong magnetic fields. Physics of the Solid State, 1998, 40, 767-769.	0.2	2
240	InAlGaAs/AlGaAs quantum wells: line widths, transition energies and segregation. Microelectronic Engineering, 2000, 51-52, 257-264.	1.1	2
241	Semiconductor quantum-dot lasers and amplifiers. , 2002, , .		2
242	Dephasing in Self-organized InAlGaAs Quantum Dots. Physica Scripta, 2002, T101, 143.	1.2	2
243	Directional Scattering Dynamics of Microcavity Polaritons. Physica Status Solidi A, 2002, 190, 327-332.	1.7	2
244	Coherent Dynamics of Biexcitons in a Semiconductor Microcavity. Physica Status Solidi A, 2002, 190, 383-387.	1.7	2
245	Wave-function reconstruction in a graded semiconductor superlattice. Applied Physics A: Materials Science and Processing, 2004, 78, 441-445.	1.1	2
246	Collective behavior of a spin-aligned gas of interwell excitons in double quantum wells. JETP Letters, 2005, 81, 108-111.	0.4	2
247	Wide-band residual phase-noise measurements on 40-GHz monolithic mode-locked lasers. IEEE Photonics Technology Letters, 2005, 17, 2388-2390.	1.3	2
248	Quantum-dot excitons in nanostructured environments. Physica Status Solidi (B): Basic Research, 2011, 248, 375-383.	0.7	2
249	Optical gain and induced absorption in CuBr. Journal of Luminescence, 1986, 35, 91-97.	1.5	1
250	<title>Ultrafast exciton dynamics in direct gap semiconductors</title>. , 1994, 2142, 39.		1
251	Hot excitons in ZnSe quantum wells. Journal of Luminescence, 1997, 72-74, 292-293.	1.5	1
252	Coherent Interaction of Three-Dimensionally Confined Electron-Hole Pairs with LO-Phonons. Physica Status Solidi (B): Basic Research, 1997, 204, 42-44.	0.7	1

#	ARTICLE	IF	CITATIONS
253	Interwell and Intrawell Magnetoexcitons in GaAs/AlGaAs Superlattices. Physica Status Solidi A, 1997, 164, 595-599.	1.7	1
254	Temperature Dependence of the Polariton Linewidth in a GaAs Quantum Well Microcavity. Physica Status Solidi (B): Basic Research, 2000, 221, 143-146.	0.7	1
255	Room-Temperature Dephasing in InAs Quantum Dots. Physica Status Solidi A, 2000, 178, 337-340.	1.7	1
256	Excited State Dynamics in In <sub>0.5</sub> Al <sub>0.04</sub> Ga <sub>0.46</sub> As/Al <sub>0.08</sub> Ga <sub>0.92</sub> As Self-Assembled Quantum Dots. Physica Status Solidi (B): Basic Research, 2001, 224, 447-451.	0.7	1
257	<title>Ultrafast exciton dynamics in semiconductors: effects of disorder and confinement</title>., 1995, , .		0
258	Luminescence dynamics in GaAs/AlAs superlattices near the type-I/type-II crossover. Journal of Luminescence, 1997, 72-74, 350-352.	1.5	0
259	MBE growth of two-dimensional electron gases on (110) GaAs. Journal of Crystal Growth, 1997, 175-176, 1097-1101.	0.7	0
260	Effect of the coherence of free electron-hole pairs on excitonic absorption in GaAs/AlGaAs superlattices. JETP Letters, 1998, 67, 67-72.	0.4	0
261	<title>Ultrafast dynamics of confined and localized excitons in low-dimensional semiconductors</title>., 1999, , .		0
262	Persistent photoeffects in p-i-n GaAs/AlGaAs heterostructures with double quantum wells. Semiconductors, 2001, 35, 99-105.	0.2	0
263	<title>Coherent interpolariton scattering on moving gratings in microcavity with 25 nm GaAs/AlGaAs single quantum well</title>., 2002, , .		0
264	TIME RESOLVED RAMAN SPECTROSCOPY OF OPTICALLY GENERATED PHONONS IN III-V SEMICONDUCTORS. Journal De Physique Colloque, 1985, 46, C7-235-C7-239.	0.2	0