

Steven Brueck

List of Publications by Year in descending order

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274
papers

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276
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276
docs citations

276
times ranked

8965
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Fano lineshape in extraordinary optical transmission. Optics Letters, 2022, 47, 2020.	1.7	5
2	Visible (400- to 700-nm) chirped-grating-coupled waveguide spectrometer. Optics Express, 2022, 30, 25050.	1.7	2
3	Plasmonic-coupled quantum dot photodetectors for mid-infrared photonics. Optics Express, 2021, 29, 7145.	1.7	3
4	Image quality improvement for optical imaging interferometric microscopy. Optics Express, 2021, 29, 38415.	1.7	5
5	Diffraction-grating beam splitter, interferometric-lithography nanopatterning with a multilongitudinal-mode diode laser. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 062603.	0.6	0
6	Optical Imaging Interferometric Microscopy with Grating Coupler Illumination. , 2021, , .		0
7	Nanoscale limits of angular optical scatterometry. AIP Advances, 2020, 10, 015140.	0.6	3
8	Quantum efficiency of plasmonic-coupled quantum dot infrared photodetectors for single- color detection: the upper limit of plasmonic enhancement. Optics Express, 2020, 28, 7618.	1.7	3
9	Chirped-grating spectrometer-on-a-chip. Optics Express, 2020, 28, 24501.	1.7	15
10	Optical angular scatterometry: In-line metrology approach for roll-to-roll and nanoimprint fabrication. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	0.6	5
11	Smart Lighting Clinical Testbed Pilot Study on Circadian Phase Advancement. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-10.	2.2	3
12	Elastic Variation of Quasi-One-Dimensional Cubic-Phase GaN at Nanoscale. Crystal Growth and Design, 2019, 19, 5046-5053.	1.4	0
13	Measuring Liquid Drop Properties on Nanoscale 1D Patterned Photoresist Structures. Scientific Reports, 2019, 9, 5723.	1.6	8
14	Nanoscale details of liquid drops on 1D patterned surfaces revealed by etching. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	0.6	1
15	Initial stage of cubic GaN for heterophase epitaxial growth induced on nanoscale v-grooved Si(001) in metal-organic vapor-phase epitaxy. Nanotechnology, 2019, 30, 025711.	1.3	2
16	Resolution Enhancement for Optical Imaging Interferometric Microscopy. , 2019, , .		0
17	Design of Chirped Gratings Using Interferometric Lithography. IEEE Photonics Journal, 2018, 10, 1-13.	1.0	3
18	Design of Chirped Gratings using Interferometric Lithography. , 2018, , .		2

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19	Nonpolar InGaN/GaN Core-Shell Single Nanowire Lasers. Nano Letters, 2017, 17, 1049-1055.	4.5	103
20	Strain engineering, efficient excitonic photoluminescence, and exciton funnelling in unmodified MoS ₂ nanosheets. Nanoscale, 2017, 9, 16602-16606.	2.8	39
21	Plasmonic Interference in Superstructured Metal Photonic Crystals. ACS Photonics, 2017, 4, 2396-2401.	3.2	8
22	Solution nuclear magnetic resonance spectroscopy on a nanostructured diamond chip. Nature Communications, 2017, 8, 188.	5.8	60
23	A novel smart lighting clinical testbed. , 2017, 2017, 4317-4320.		3
24	Optically Pumped Continuously Tunable Mid-IR Distributed-Feedback Semiconductor Laser. IEEE Journal of Quantum Electronics, 2016, 52, 1-10.	1.0	6
25	Oscillatory penetration of near-fields in plasmonic excitation at metal-dielectric interfaces. Scientific Reports, 2016, 6, 24400.	1.6	10
26	Green Emitting Cubic GaInN/GaN Quantum Well Stripes on Micropatterned Si(001) and Their Strain Analysis. Advanced Electronic Materials, 2016, 2, 1500327.	2.6	18
27	Nanoscale Patterned Growth Assisted by Surface Out-Diffusion of Adatoms from Amorphous Mask Films in Molecular Beam Epitaxy. Crystal Growth and Design, 2016, 16, 3669-3676.	1.4	4
28	Atomic-Scale Phase Transition of Epitaxial GaN on Nanostructured Si(001): Activation and Beyond. Crystal Growth and Design, 2016, 16, 2183-2189.	1.4	5
29	Intrinsic polarization control in rectangular GaN nanowire lasers. Nanoscale, 2016, 8, 5682-5687.	2.8	32
30	Incorporation of indium on cubic GaN epitaxially induced on a nanofaceted Si(001) substrate by phase transition. Applied Physics Letters, 2015, 107, .	1.5	10
31	A novel blue-enhanced photodetector using honeycomb structure. , 2015, , .		3
32	CMOS-compatible plenoptic detector for LED lighting applications. Optics Express, 2015, 23, 23208.	1.7	4
33	MWIR superlattice detectors integrated with substrate side-illuminated plasmonic coupler. Proceedings of SPIE, 2014, , .	0.8	3
34	Graphene nano-objects tailored by interference lithography. Proceedings of SPIE, 2014, , .	0.8	0
35	THz signatures of DNA in nanochannels under electrophoretic control. , 2013, , .		4
36	Green cubic GaInN/GaN light-emitting diode on microstructured silicon (100). Applied Physics Letters, 2013, 103, .	1.5	37

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37	nAnalysis of subwavelength metal hole array structure for the enhancement of back-illuminated quantum dot infrared photodetectors. Optics Express, 2013, 21, 4709.	1.7	20
38	Ultrafast optical wide field microscopy. Optics Express, 2013, 21, 8763.	1.7	14
39	Free carrier induced spectral shift for GaAs filled metallic hole arrays. Optics Express, 2012, 20, 7142.	1.7	2
40	Solid-immersion imaging interferometric nanoscopy to the limits of available frequency space. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 772.	0.8	7
41	Concentration methods for high-resolution THz spectroscopy of nucleic-acid biomolecules and crystals. Proceedings of SPIE, 2012, , .	0.8	5
42	Optically pumped type-II mid-IR tunable DFB laser. , 2012, , .		1
43	Leaky-mode effects in plasmonic-coupled quantum dot infrared photodetectors. Applied Physics Letters, 2012, 100, 011110.	1.5	9
44	Cubic GaInN/GaN Multi-Quantum Wells for Increased Smart Lighting System Efficiency. , 2012, , .		1
45	Widely Tunable Optically Pumped Mid-IR DFB Laser. , 2012, , .		0
46	Plasmonic-Enhanced Photodetectors for Focal Plane Arrays. IEEE Photonics Technology Letters, 2011, 23, 935-937.	1.3	27
47	Lithography-free Nanoscale Patterned Growth of GaAs on Si(001) with Sub-100-nm Silica Nanoparticles by Molecular Beam Epitaxy. Crystal Growth and Design, 2011, 11, 3673-3676.	1.4	11
48	A monolithically integrated plasmonic infrared quantum dot camera. Nature Communications, 2011, 2, 286.	5.8	137
49	Ultrafast nonlinear optical spectroscopy of a dual-band negative index metamaterial all-optical switching device. Optics Express, 2011, 19, 3973.	1.7	32
50	Surface Plasma Wave Excitation at a 2-D Corrugated Metal-semiconductor Interface for Infrared Photodetectors. AIP Conference Proceedings, 2011, , .	0.3	0
51	Integrated photonic structures for parallel fluorescence and refractive index biosensing. Proceedings of SPIE, 2011, , .	0.8	4
52	Nanostructures and Functional Materials Fabricated by Interferometric Lithography. Advanced Materials, 2011, 23, 147-179.	11.1	198
53	Large area 3D helical photonic crystals. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 06FF02.	0.6	6
54	Saturation of the second harmonic generation from GaAs-filled metallic hole arrays by nonlinear absorption. Physical Review B, 2011, 83, .	1.1	7

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55	Quantum Hall Ferromagnetism in the Presence of Tunable Disorder. Physical Review Letters, 2011, 106, 156806.	2.9	3
56	High-Resolution THz Spectroscopy to Measure Strong THz Absorption Signatures of si-RNA in Solution. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 15-22.	0.2	4
57	Backside illuminated infrared detectors with plasmonic resonators. Proceedings of SPIE, 2010, , .	0.8	3
58	Tailoring Anisotropic Wetting Properties on Submicrometer-Scale Periodic Grooved Surfaces. Langmuir, 2010, 26, 2700-2706.	1.6	79
59	Large area three-dimensional photonic crystals with embedded waveguides. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6O38-C6O44.	0.6	2
60	Resonant coupling to a dipole absorber inside a metamaterial: Anticrossing of the negative index response. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6O16-C6O20.	0.6	1
61	Titania nanostructure arrays from lithographically defined templates. Applied Physics Letters, 2010, 97, 223106.	1.5	10
62	Characterization of thin GaAs films grown on nanostructured silicon substrates. , 2010, , .		2
63	Narrow THz Spectral Signatures Through an RNA Solution in Nanofluidic Channels. IEEE Sensors Journal, 2010, 10, 755-759.	2.4	38
64	Ultrafast Pump-Probe Spectroscopy of a Dual-Band Negative-Index Metamaterial. , 2010, , .		0
65	Large-Area Nanopatterning of Self-Assembled Monolayers of Alkanethiolates by Interferometric Lithography. Langmuir, 2010, 26, 13600-13606.	1.6	37
66	Light direction-dependent plasmonic enhancement in quantum dot infrared photodetectors. Applied Physics Letters, 2010, 97, .	1.5	52
67	Scaling of the surface migration length in nanoscale patterned growth. Applied Physics Letters, 2009, 94, 153110.	1.5	15
68	Imaging interferometric microscopy- resolution to the linear systems limits. , 2009, , .		0
69	Fabrication and characteristics of broad-area light-emitting diode based on nanopatterned quantum dots. Nanotechnology, 2009, 20, 035302.	1.3	13
70	LARGE AREA NANOSCALE PATTERNING BY INTERFEROMETRIC LITHOGRAPHY â€“ NANOPHOTONICS AND NANOFLUIDICS. Selected Topics in Electornics and Systems, 2009, , 131-141.	0.2	0
71	Lithographically Defined Porous Carbon Electrodes. Small, 2009, 5, 2792-2796.	5.2	45
72	Midâ€infrared transmission through a subwavelength circular aperture coupled to a surrounding concentric metal grating by surface plasmon excitation. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S175.	0.8	1

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73	Subpicosecond Optical Switching with a Negative Index Metamaterial. Nano Letters, 2009, 9, 3565-3569.	4.5	115
74	Bi-anisotropy of multiple-layer fishnet negative-index metamaterials due to angled sidewalls. Optics Express, 2009, 17, 6782.	1.7	28
75	Quantum dot infrared photodetector enhanced by surface plasma wave excitation. Optics Express, 2009, 17, 23160.	1.7	114
76	Effect of wall-molecule interactions on electrokinetic transport of charged molecules in nanofluidic channels during FET flow control. Lab on A Chip, 2009, 9, 1601.	3.1	38
77	Widely tunable distributed-feedback lasers with chirped gratings. Applied Physics Letters, 2009, 94, 161102.	1.5	8
78	Photoluminescence investigation of InAs quantum dots incorporating DWELL structures on patterned and planar GaAs (100) substrate. Proceedings of SPIE, 2009, , .	0.8	0
79	Experimental demonstration of sidewall angle induced bianisotropy in multiple layer negative index metamaterials. Applied Physics Letters, 2009, 94, 153107.	1.5	18
80	Imaging Interferometric Nanoscopy to the Limit of Available Frequency Space. , 2009, , .		0
81	Multi-Photon Absorption and Second Harmonic Generation Saturation in GaAs-Filled Nanoplasmonic Arrays. , 2009, , .		0
82	Monitoring FET flow control and wall adsorption of charged fluorescent dye molecules in nanochannels integrated into a multiple internal reflection infrared waveguide. Lab on A Chip, 2008, 8, 251-258.	3.1	41
83	Formation of Hierarchical Nanoparticle Pattern Arrays Using Colloidal Lithography and Two-Step Self-Assembly: Microspheres atop Nanospheres. Chemistry of Materials, 2008, 20, 1847-1854.	3.2	39
84	High-Power Continuous-Wave Single-Longitudinal-Mode Operation of an Optically Pumped DFB Laser at $\lambda \sim 3.64 \mu\text{m}$. IEEE Photonics Technology Letters, 2008, 20, 727-729.	1.3	4
85	Strongly Anisotropic Wetting on One-Dimensional Nanopatterned Surfaces. Nano Letters, 2008, 8, 2819-2824.	4.5	184
86	Large-area linear and nonlinear nanophotonics. , 2008, , .		0
87	Imaging interferometric microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 811.	0.8	21
88	Enhancing the signal-to-noise ratio of an infrared photodetector with a circular metal grating. Optics Express, 2008, 16, 4588.	1.7	72
89	Surface plasmon modes of finite, planar, metal-insulator-metal plasmonic waveguides. Optics Express, 2008, 16, 14902.	1.7	119
90	Optical resolution below $\lambda/4$ using synthetic aperture microscopy and evanescent-wave illumination. Optics Express, 2008, 16, 20477.	1.7	18

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91	Electric field control and analyte transport in Si/SiO ₂ fluidic nanochannels. Lab on A Chip, 2008, 8, 1671.	3.1	16
92	1.52 μm photoluminescence from InAs quantum dots grown on patterned GaAs buffer. , 2008, , .		0
93	DNA Transport in Hierarchically-Structured Colloidal-Nanoparticle Porous-Wall Nanochannels. Nano Letters, 2008, 8, 1610-1618.	4.5	36
94	NANOSCALE IMAGING TECHNOLOGY FOR THz-FREQUENCY TRANSMISSION MICROSCOPY. International Journal of High Speed Electronics and Systems, 2008, 18, 205-222.	0.3	18
95	Improved photoluminescence efficiency of patterned quantum dots incorporating a dots-in-the-well structure. Nanotechnology, 2008, 19, 435710.	1.3	16
96	Route to production of suspended perforated membranes. Journal of Vacuum Science & Technology B, 2008, 26, 589-592.	1.3	0
97	LARGE AREA NANOSCALE PATTERNING BY INTERFEROMETRIC LITHOGRAPHY “ NANOPHOTONICS AND NANOFLUIDICS. International Journal of High Speed Electronics and Systems, 2008, 18, 889-899.	0.3	2
98	Faceting of a quasi-two-dimensional GaAs crystal in nanoscale patterned growth. Applied Physics Letters, 2008, 92, .	1.5	16
99	Fabrication of three-dimensional photonic crystal structures by interferometric lithography and nanoparticle self-assembly. Applied Physics Letters, 2008, 93, 071105.	1.5	15
100	Negative differential conductance in two-dimensional electron grids. Applied Physics Letters, 2008, 92, 052104.	1.5	22
101	Large tunability of an optically pumped Mid-IR laser with chirped distributed-feedback grating. , 2008, , .		0
102	Graded index optical lens using inhomogeneous. , 2008, , .		1
103	Structured illumination for imaging interferometric microscopy. , 2008, , .		0
104	Optical Characterization and Sensitivity Evaluation of Guided-Resonances in Photonic Crystal Slabs for Biosensing Applications. , 2007, , .		1
105	Effects of dimensional nanoscaling on the optical and electrical properties of crystalline Si thin films. Journal of Applied Physics, 2007, 101, 104914.	1.1	11
106	Fabrication of 22 nm half-pitch silicon lines by single-exposure self-aligned spatial-frequency doubling. Journal of Vacuum Science & Technology B, 2007, 25, 2224.	1.3	20
107	Enhancing Infrared Photodetection with a Circular Metal Grating. , 2007, , .		1
108	Experimental comparison of circular, elliptical and rectangular (fishnet) negative index metamaterials. , 2007, , .		0

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109	Sensitivity analysis of a photonic crystal structure for index-of-refraction sensing. , 2007, , .		26
110	Comparison of negative refractive index materials with circular, elliptical and rectangular holes. Optics Express, 2007, 15, 4515.	1.7	34
111	Imaging interferometric microscopy“approaching the linear systems limits of optical resolution.. Optics Express, 2007, 15, 6651.	1.7	86
112	CW, High Power, Single-Longitudinal-Mode Operation of an Optically Pumped Mid-IR DFB Laser. , 2007, , .		2
113	Plasma-Induced Formation of Ag Nanodots for Ultra-High-Enhancement Surface-Enhanced Raman Scattering Substrates. Langmuir, 2007, 23, 5135-5138.	1.6	28
114	Top-Down Approaches to the Formation of Silica Nanoparticle Patterns. Langmuir, 2007, 23, 5377-5385.	1.6	36
115	Second Harmonic Generation from a Nanopatterned Isotropic Nonlinear Material. Nano Letters, 2006, 6, 1027-1030.	4.5	140
116	Temperature-dependent photoluminescence from patterned InAs quantum dots formed using metalorganic chemical vapor epitaxy. Journal of Applied Physics, 2006, 99, 033503.	1.1	12
117	Light coupling through a plasmonic antenna integrated on an InAs/GaAs quantum dot infrared photodetector. , 2006, , .		1
118	Ridged atomic mirrors and atomic nanoscope. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1605-1623.	0.6	11
119	Using Bicellar Mixtures To Form Supported and Suspended Lipid Bilayers on Silicon Chips. Langmuir, 2006, 22, 8163-8168.	1.6	40
120	Demonstration of metal-dielectric negative-index metamaterials with improved performance at optical frequencies. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 434.	0.9	200
121	Zero- n^{\wedge} bandgap in photonic crystal superlattices. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 506.	0.9	57
122	Optical negative-index bulk metamaterials consisting of 2D perforated metal-dielectric stacks. Optics Express, 2006, 14, 6778.	1.7	141
123	Second harmonic generation from patterned GaAs inside a subwavelength metallic hole array. Optics Express, 2006, 14, 9570.	1.7	52
124	Simulation of dense contact hole (n^{\wedge} 1 =0.35) arrays with 193 nm immersion lithography. , 2006, , .		0
125	Integrated biomedical nanosensor using guided resonance in photonic crystal structures. , 2006, , .		3
126	244-nm imaging interferometric lithography test bed. , 2006, , .		1

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127	Optical negative index metamaterials with improved performance. , 2006, , .		0
128	Nano-patterned isotropic nonlinear material for second harmonic generation without phase matching. , 2006, , .		0
129	Guided-resonance in photonic crystal slabs for biosensing applications. , 2006, , .		3
130	Heteroepitaxy of high-quality Ge on Si by nanoscale seed pads grown through a SiO ₂ interlayer. , 2005, , .		3
131	III-nitride LEDs with photonic crystal structures. , 2005, , .		15
132	Experimental Demonstration of Near-Infrared Negative-Index Metamaterials. Physical Review Letters, 2005, 95, 137404.	2.9	1,135
133	Cadmium telluride growth on patterned substrates for mercury cadmium telluride infrared detectors. Journal of Electronic Materials, 2005, 34, 704-709.	1.0	8
134	Large-area, infrared nanophotonic materials fabricated using interferometric lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2700.	1.6	26
135	Fabrication of enclosed nanochannels using silica nanoparticles. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2694.	1.6	21
136	Theory and experiment for one-dimensional directed self-assembly of nanoparticles. Journal of Applied Physics, 2005, 98, 034309.	1.1	13
137	Epitaxial growth of a nanoscale, vertically faceted, one-dimensional, high-aspect ratio grating in III-V materials for integrated photonics. Applied Physics Letters, 2005, 87, 071110.	1.5	6
138	Quantitative determination of tensile stress creation during island coalescence using selective-area growth. Journal of Applied Physics, 2005, 97, 083530.	1.1	22
139	GaAs on Si(111) "crystal shape and strain relaxation in nanoscale patterned growth. Applied Physics Letters, 2005, 87, 023101.	1.5	9
140	In situ real-time monitoring of profile evolution during plasma etching of mesoporous low-dielectric-constant SiO ₂ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 347-354.	0.9	10
141	Enhanced Infrared Transmission through Subwavelength Coaxial Metallic Arrays. Physical Review Letters, 2005, 94, 033902.	2.9	189
142	Anisotropy of selective epitaxy in nanoscale-patterned growth: GaAs nanowires selectively grown on a SiO ₂ -patterned (001) substrate by molecular-beam epitaxy. Journal of Applied Physics, 2005, 98, 114312.	1.1	12
143	Electrokinetic molecular separation in nanoscale fluidic channels. Lab on A Chip, 2005, 5, 1271.	3.1	155
144	Enhanced mid-infrared transmission through nanoscale metallic coaxial-aperture arrays. Optics Express, 2005, 13, 4406.	1.7	39

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145	Near-infrared double negative metamaterials. <i>Optics Express</i> , 2005, 13, 4922.	1.7	314
146	Generalized transverse Bragg waveguides. <i>Optics Express</i> , 2005, 13, 9202.	1.7	5
147	Midinfrared Resonant Magnetic Nanostructures Exhibiting a Negative Permeability. <i>Physical Review Letters</i> , 2005, 94, 037402.	2.9	264
148	Fabrication of 1D and 2D vertical nanomagnetic resonators. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 3327.	1.6	5
149	Simulation of the 45-nm half-pitch node with 193-nm immersion lithography. , 2004, 5377, 1579.		0
150	Nanoscale two-dimensional patterning on Si(001) by large-area interferometric lithography and anisotropic wet etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 1949.	1.6	12
151	244-nm imaging interferometric lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 3465.	1.6	5
152	Lithographically directed deposition of silica nanoparticles using spin coating. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 3415.	1.6	22
153	Optimizing the fluid dispensing process for immersion lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 3454.	1.6	6
154	Imaging capabilities of resist in deep ultraviolet liquid immersion interferometric lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 3459.	1.6	24
155	Strain-relieved, dislocation-free $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}(001)$ heterostructure by nanoscale-patterned growth. <i>Applied Physics Letters</i> , 2004, 85, 4181-4183.	1.5	12
156	Equilibrium crystal shape of GaAs in nanoscale patterned growth. <i>Journal of Applied Physics</i> , 2004, 96, 1214-1218.	1.1	11
157	Spatial phase separation of GaN selectively grown on a nanoscale faceted Si surface. <i>Applied Physics Letters</i> , 2004, 84, 2079-2081.	1.5	25
158	Large second-harmonic signal in thermally poled lead glass-silica waveguides. <i>Applied Physics Letters</i> , 2004, 84, 4935-4937.	1.5	30
159	Dual closed-loop, optoelectronic, auto-oscillatory detection circuit for monitoring fluorescence lifetime-based chemical sensors and biosensors. <i>Journal of Biomedical Optics</i> , 2004, 9, 609.	1.4	1
160	Directed Self-Assembly of Silica Nanoparticles into Nanometer-Scale Patterned Surfaces Using Spin-Coating. <i>Advanced Materials</i> , 2004, 16, 1427-1432.	11.1	114
161	Selective area growth of InAs quantum dots formed on a patterned GaAs substrate. <i>Applied Physics Letters</i> , 2004, 85, 2337-2339.	1.5	45
162	Defect reduction mechanisms in the nanoheteroepitaxy of GaN on SiC. <i>Journal of Applied Physics</i> , 2004, 95, 1450-1454.	1.1	32

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163	Heteroepitaxial selective growth of In _x Ga _{1-x} As on SiO ₂ -patterned GaAs(001) by molecular beam epitaxy. Journal of Applied Physics, 2004, 96, 4856-4865.	1.1	16
164	A Facile Approach to Directed Assembly of Patterns of Nanoparticles Using Interference Lithography and Spin Coating. Nano Letters, 2004, 4, 1295-1299.	4.5	93
165	Optimization and apodization of aerial images at high NA in imaging interferometric lithography. , 2004, 5377, 1544.		3
166	Deep-UV immersion interferometric lithography. , 2004, , .		12
167	Extension of 193-nm immersion optical lithography to the 22-nm half-pitch node. , 2004, , .		6
168	Imaging interferometric microscopy. Optics Letters, 2003, 28, 1424.	1.7	120
169	Selective growth of Ge on Si(100) through vias of SiO ₂ nanotemplate using solid source molecular beam epitaxy. Applied Physics Letters, 2003, 83, 5032-5034.	1.5	65
170	Fabrication of an integrated nanofluidic chip using interferometric lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 2941.	1.6	57
171	Deep UV immersion interferometric lithography. , 2003, , .		12
172	Grating analysis of frequency parsing strategies for imaging interferometric lithography. , 2003, 5040, 1276.		3
173	Demonstration of imaging interferometric microscopy (IIM). , 2003, , .		0
174	Vortex Configurations, Matching, and Domain Structure in Large Arrays of Artificial Pinning Centers. Physical Review Letters, 2002, 88, 067003.	2.9	87
175	Nanoscale limited area growth of InAs islands on GaAs(001) by molecular beam epitaxy. Journal of Applied Physics, 2002, 91, 3282-3288.	1.1	40
176	Selective growth and associated faceting and lateral overgrowth of GaAs on a nanoscale limited area bounded by a SiO ₂ mask in molecular beam epitaxy. Journal of Applied Physics, 2002, 92, 6567-6571.	1.1	28
177	<title>Development of a new detection technique for fluorescence lifetime-based chemical/biological sensor arrays monitoring: dual closed-loop optoelectronic auto-oscillatory detection circuit</title>. , 2002, 4624, 115.		1
178	Imaging interferometric microscopy for enhanced resolution. , 2002, 4689, 802.		1
179	Metallic inductive and capacitive grids: theory and experiment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1352.	0.8	32
180	Nanoheteroepitaxy for the integration of highly mismatched semiconductor materials. IEEE Journal of Quantum Electronics, 2002, 38, 1017-1028.	1.0	62

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181	Technique for detecting changes in fluorescence lifetime by means of optoelectronic circuit auto-oscillation. <i>Optics Letters</i> , 2001, 26, 1256.	1.7	5
182	Gain, refractive index change, and linewidth enhancement factor in broad-area GaAs and InGaAs quantum-well lasers. <i>IEEE Journal of Quantum Electronics</i> , 2001, 37, 1449-1459.	1.0	46
183	Initial nanoheteroepitaxial growth of GaAs on Si(100) by OMVPE. <i>Journal of Electronic Materials</i> , 2001, 30, 812-816.	1.0	13
184	A surface plasmon resonance array biosensor based on spectroscopic imaging. <i>Biosensors and Bioelectronics</i> , 2001, 16, 97-108.	5.3	67
185	<title>Optoelectronic closed-loop auto-oscillator for fluorescence lifetime detection: a new fluorimetry technique with applications to chemical/biosensors</title>. , 2001, , .		2
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187	Molecular-beam epitaxial growth of one-dimensional rows of InAs quantum dots on nanoscale-patterned GaAs. <i>Applied Physics Letters</i> , 2001, 79, 2630-2632.	1.5	29
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