

Bruce W Wessels

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249
papers

7,301
citations

41
h-index

76
g-index

253
ext. papers

8,108
ext. citations

4.6
avg, IF

5.84
L-index

#	Paper	IF	Citations
249	Photoluminescence spectroscopy of excitonic emission in CsPbCl ₃ perovskite single crystals. <i>Journal of Luminescence</i> , 2022 , 243, 118661	3.8	2
248	CsPbBr ₃ perovskite detectors with 1.4% energy resolution for high-energy γ -rays. <i>Nature Photonics</i> , 2021 , 15, 36-42	33.9	79
247	Demonstration of Energy-Resolved γ -Ray Detection at Room Temperature by the CsPbCl Perovskite Semiconductor. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2068-2077	16.4	18
246	Inorganic Halide Perovskitoid TlPbI ₃ for Ionizing Radiation Detection. <i>Advanced Functional Materials</i> , 2021 , 31, 2006635	15.6	7
245	Excitons in CsPbBr Halide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9301-9307	6.4	2
244	Direct thermal neutron detection by the 2D semiconductor LiInPSe. <i>Nature</i> , 2020 , 577, 346-349	50.4	21
243	Monte Carlo simulation of transport properties in wide gap Hg ₃ Se ₂ I ₂ . <i>Semiconductor Science and Technology</i> , 2019 , 34, 115003	1.8	1
242	Purification and Improved Nuclear Radiation Detection of Tl ₆ Si ₄ Semiconductor. <i>Crystal Growth and Design</i> , 2019 , 19, 4738-4744	3.5	1
241	Controlling the Vapor Transport Crystal Growth of Hg ₃ Se ₂ I ₂ Hard Radiation Detector Using Organic Polymer. <i>Crystal Growth and Design</i> , 2019 , 19, 2074-2080	3.5	5
240	From 0D Cs ₃ Bi ₂ I ₉ to 2D Cs ₃ Bi ₂ I ₆ Cl ₃ : Dimensional Expansion Induces a Direct Band Gap but Enhances Electron-Phonon Coupling. <i>Chemistry of Materials</i> , 2019 , 31, 2644-2650	9.6	72
239	Perovskites with a Twist: Strong In ¹⁺ Off-Centering in the Mixed-Valent CsInX ₃ (X = Cl, Br). <i>Chemistry of Materials</i> , 2019 , 31, 9554-9566	9.6	18
238	Carrier recombination mechanism in CsPbBr ₃ revealed by time-resolved photoluminescence spectroscopy. <i>Physical Review B</i> , 2019 , 100,	3.3	10
237	Noise sources and their limitations on the performance of compound semiconductor hard radiation detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 916, 133-140	1.2	4
236	Perovskite CsPbBr ₃ single crystal detector for alpha-particle spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 922, 217-221	1.2	51
235	High spectral resolution of gamma-rays at room temperature by perovskite CsPbBr single crystals. <i>Nature Communications</i> , 2018 , 9, 1609	17.4	246
234	An Effective Purification Process for the Nuclear Radiation Detector Tl ₆ SeI ₄ . <i>Crystal Growth and Design</i> , 2018 , 18, 3484-3493	3.5	7
233	CuISe: A Metal-Inorganic Framework Wide-Bandgap Semiconductor for Photon Detection at Room Temperature. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1894-1899	16.4	11

232	Particle Detection and Charge Transport Characteristics in the A ₃ M ₂ I ₉ Defect Perovskites (A = Cs, Rb; M = Bi, Sb). <i>ACS Photonics</i> , 2018 , 5, 3748-3762	6.3	61
231	Role of Stoichiometry in the Growth of Large Pb ₂ P ₂ Se ₆ Crystals for Nuclear Radiation Detection. <i>ACS Photonics</i> , 2018 , 5, 566-573	6.3	11
230	Dynamic Disorder, Band Gap Widening, and Persistent Near-IR Photoluminescence up to At Least 523 K in ASnI ₃ Perovskites (A = Cs ⁺ , CH ₃ NH ₃ ⁺ and NH ₂ CH ₂ NH ₂ ⁺). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26353-26361	3.8	17
229	Deep Level and Near-Band-Edge Recombination in Semiconducting Antiperovskite Hg ₃ Se ₂ I ₂ Single Crystals. <i>Advanced Optical Materials</i> , 2018 , 6, 1800328	8.1	2
228	Resolving the Energy of X-Ray Photons with MAPbI ₃ Single Crystals. <i>ACS Photonics</i> , 2018 , 5, 4132-4138	6.3	67
227	Defect Antiperovskite Compounds HgQI (Q = S, Se, and Te) for Room-Temperature Hard Radiation Detection. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7939-7951	16.4	38
226	Strong Electron-Phonon Coupling and Self-Trapped Excitons in the Defect Halide Perovskites A ₃ M ₂ I ₉ (A = Cs, Rb; M = Bi, Sb). <i>Chemistry of Materials</i> , 2017 , 29, 4129-4145	9.6	344
225	TlSn ₂ I ₅ , a Robust Halide Antiperovskite Semiconductor for X-Ray Detection at Room Temperature. <i>ACS Photonics</i> , 2017 , 4, 1805-1813	6.3	30
224	Charge Transport and Observation of Persistent Photoconductivity in TlSeI Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1538-1544	6.4	13
223	TlSbS ₂ : a Semiconductor for Hard Radiation Detection. <i>ACS Photonics</i> , 2017 , 4, 2891-2898	6.3	8
222	Electronic defects in the halide antiperovskite semiconductor Hg ₃ Se ₂ I ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	3
221	Improved Crystal Growth of Tl ₆ SeI ₄ for X-Ray Detection Material by Oxide Impurity Removal. <i>Crystal Growth and Design</i> , 2017 , 17, 6096-6104	3.5	6
220	χ ⁽²⁾ Modulator With 40-GHz Modulation Utilizing BaTiO ₃ Photonic Crystal Waveguides. <i>IEEE Journal of Quantum Electronics</i> , 2017 , 53, 1-10	2	16
219	Cascaded spintronic logic with low-dimensional carbon. <i>Nature Communications</i> , 2017 , 8, 15635	17.4	27
218	Photoluminescence fatigue and inhomogeneous line broadening in semi-insulating Tl ₆ SeI ₄ single crystals. <i>Semiconductor Science and Technology</i> , 2016 , 31, 065009	1.8	14
217	Integrated BaTiO ₃ modulator with 8 dB extinction at 50 GHz and 25 km reach 2016 ,		1
216	An Unusual Crystal Growth Method of the Chalcogenide Semiconductor, Hg ₃ S ₂ Cl ₂ : A New Candidate for Hard Radiation Detection. <i>Crystal Growth and Design</i> , 2016 , 16, 2678-2684	3.5	13
215	Charge Transport Mechanisms in a Pb ₂ P ₂ Se ₆ Semiconductor. <i>ACS Photonics</i> , 2016 , 3, 1877-1887	6.3	5

214	Refined Synthesis and Crystal Growth of Pb ₂ P ₂ Se ₆ for Hard Radiation Detectors. <i>Crystal Growth and Design</i> , 2016 , 16, 5100-5109	3.5	9
213	Charge Transport in Magnetic Semiconductor p-n Heterojunctions. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 2470-2474	2.9	4
212	Magnetism and Mn Clustering in (In,Mn)Sb Magnetic Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24159-67	9.5	15
211	High-field magnetic circular dichroism in ferromagnetic InMnSb and InMnAs: Spin-orbit-split hole bands and g factors. <i>Physical Review B</i> , 2015 , 92,	3.3	7
210	Excitonic emissions and above-band-gap luminescence in the single-crystal perovskite semiconductors CsPbBr ₃ and CsPbCl ₃ . <i>Physical Review B</i> , 2015 , 92,	3.3	194
209	Mn doped InSb studied at the atomic scale by cross-sectional scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2015 , 107, 222102	3.4	1
208	Bilayer avalanche spin-diode logic. <i>AIP Advances</i> , 2015 , 5, 117102	1.5	4
207	Hard Radiation Detection from the Selenophosphate Pb ₂ P ₂ Se ₆ . <i>Advanced Functional Materials</i> , 2015 , 25, 4874-4881	15.6	25
206	Emitter-Coupled Spin-Transistor Logic: Cascaded Spintronic Computing Beyond 10 GHz. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015 , 5, 17-27	5.2	7
205	Characterization of deep level defects in Tl ₆ I ₄ S single crystals by photo-induced current transient spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 075303	3	2
204	Emitter-coupled spin-transistor logic. <i>Journal of Parallel and Distributed Computing</i> , 2014 , 74, 2461-2469	4.4	5
203	Investigation of Semi-Insulating Cs ₂ Hg ₆ S ₇ and Cs ₂ Hg ₆ -xCdx ₇ Alloy for Hard Radiation Detection. <i>Crystal Growth and Design</i> , 2014 , 14, 5949-5956	3.5	10
202	Crystal Growth of Tl ₄ CdI ₆ : A Wide Band Gap Semiconductor for Hard Radiation Detection. <i>Crystal Growth and Design</i> , 2014 , 14, 2401-2410	3.5	30
201	Photo-induced current transient spectroscopy of single crystal Tl ₆ I ₄ Se. <i>Semiconductor Science and Technology</i> , 2014 , 29, 115002	1.8	5
200	Optical investigation of defects in semi-insulating Tl ₆ I ₄ S single crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	6
199	High-performance computing based on spin-diode logic 2014 ,		1
198	Cs ₂ MIIIMIV ₃ Q ₈ (Q = S, Se, Te): An Extensive Family of Layered Semiconductors with Diverse Band Gaps. <i>Chemistry of Materials</i> , 2013 , 25, 3344-3356	9.6	64
197	Photoconductivity in Tl ₆ SI ₄ : A Novel Semiconductor for Hard Radiation Detection. <i>Chemistry of Materials</i> , 2013 , 25, 2868-2877	9.6	39

196	Transient photocurrent measurements in alkali chalcogenide ternary compound semiconductors. <i>Semiconductor Science and Technology</i> , 2013 , 28, 015022	1.8	7
195	Crystal Growth of the Perovskite Semiconductor CsPbBr ₃ : A New Material for High-Energy Radiation Detection. <i>Crystal Growth and Design</i> , 2013 , 13, 2722-2727	3.5	927
194	CsCdInQ ₃ (Q = Se, Te): New Photoconductive Compounds As Potential Materials for Hard Radiation Detection. <i>Chemistry of Materials</i> , 2013 , 25, 2089-2099	9.6	46
193	Photonic Crystal Waveguide Electro-Optic Modulator With a Wide Bandwidth. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1601-1607	4	22
192	Photoconductivity in the chalcogenide semiconductor, SbSeI: a new candidate for hard radiation detection. <i>Inorganic Chemistry</i> , 2013 , 52, 7045-50	5.1	43
191	MAGNETORESISTANCE OF NARROW GAP MAGNETIC SEMICONDUCTOR HETEROJUNCTIONS. <i>Spin</i> , 2013 , 03, 1340011	1.3	
190	Cyclotron resonance in ferromagnetic InMnAs and InMnSb. <i>Physical Review B</i> , 2013 , 88,	3.3	11
189	Magnetoresistance in InMnAs/InAs heterojunctions and its dependence on alloy composition and temperature. <i>Applied Physics Letters</i> , 2013 , 103, 053503	3.4	4
188	CsHgInS ₃ : a New Quaternary Semiconductor for γ -ray Detection. <i>Chemistry of Materials</i> , 2012 , 24, 4434-4441	9.6	50
187	Characterization of InMnSb epitaxial films for spintronics. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012032	0.3	1
186	Mercury and antimony chalcogenide semiconductors as new candidates for radiation detection applications at room temperature 2012 ,		6
185	Formation of native defects in the γ -ray detector material Cs ₂ Hg ₆ S ₇ . <i>Applied Physics Letters</i> , 2012 , 101, 202103	3.4	10
184	A Spin-Diode Logic Family. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 1026-1032	2.6	18
183	Ferromagnetic InMnSb multi-phase films study by aberration-corrected (scanning) transmission electron microscopy. <i>Journal of Applied Physics</i> , 2012 , 111, 07C311	2.5	32
182	Crystal Growth and Characterization of the X-ray and γ -ray Detector Material Cs ₂ Hg ₆ S ₇ . <i>Crystal Growth and Design</i> , 2012 , 12, 3250-3256	3.5	40
181	Time-resolved differential transmission in MOVPE-grown ferromagnetic InMnAs. <i>Physical Review B</i> , 2012 , 85,	3.3	10
180	InMnAs magnetoresistive spin-diode logic 2012 ,		4
179	Photoluminescent properties of semiconducting Tl ₆ I ₄ Se. <i>Semiconductor Science and Technology</i> , 2012 , 27, 015016	1.8	5

178	Emitter-coupled spin-transistor logic 2012 ,		3
177	Investigation of defect levels in Cs ₂ Hg ₆ S ₇ single crystals by photoconductivity and photoluminescence spectroscopies. <i>Journal of Applied Physics</i> , 2012 , 112, 063702	2.5	10
176	Structural and magnetic properties of epitaxial In _{1-x} Mn _x Sb semiconductor alloys with x > 0.08. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 032801	1.3	5
175	Dimensionally reduced heavy atom semiconductors as candidate materials for γ-ray detection: the case of Cs ₂ Hg ₆ S ₇ . <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1341, 1		3
174	Thallium Chalcogenide-Based Wide-Band-Gap Semiconductors: TlGaSe ₂ for Radiation Detectors. <i>Chemistry of Materials</i> , 2011 , 23, 3120-3128	9.6	79
173	Thallos chalcogenide (Tl ₆ I ₄ Se) for radiation detection at X-ray and γ-ray energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 659, 333-335	1.2	19
172	Thallium chalcogenides for X-ray and γ-ray detection. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10030-3	16.4	98
171	Dimensional reduction: a design tool for new radiation detection materials. <i>Advanced Materials</i> , 2011 , 23, 4163-7	24	147
170	Spin-dependent magnetotransport in a p-InMnSb/n-InSb magnetic semiconductor heterojunction. <i>Applied Physics Letters</i> , 2011 , 98, 193506	3.4	20
169	Alkali Metal Chalcogenides for Radiation Detection. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1341, 1		3
168	Cyclotron resonance in InMnAs and InMnSb ferromagnetic films. <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012056	0.3	2
167	Local electronic and magnetic structure of mixed ferrite multilayer materials. <i>Physical Review B</i> , 2010 , 81,	3.3	9
166	Strain-driven spin reorientation in magnetite/barium titanate heterostructures. <i>Applied Physics Letters</i> , 2010 , 96, 092510	3.4	32
165	Using the infrared magnetorefractive effect to compare the magnetoresistance in (100) and (111) oriented Fe ₃ O ₄ films. <i>Journal of Applied Physics</i> , 2010 , 107, 09B102	2.5	9
164	High-temperature ferromagnetism in epitaxial (In,Mn)Sb films. <i>Physical Review B</i> , 2010 , 81,	3.3	22
163	Magnetoamplification in a bipolar magnetic junction transistor. <i>Physical Review Letters</i> , 2010 , 105, 117202	24	35
162	Magnetotransport properties of InMnSb magnetic semiconductor thin films. <i>Physical Review B</i> , 2010 , 82,	3.3	44
161	Ferroelectric Thin Film Microcavities and their Optical Resonant Properties. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1182, 24		

160	Polarization reversal and backswitching dynamics in epitaxial BaTiO ₃ thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 054113	2.5	18
159	Giant magnetoresistance of magnetic semiconductor heterojunctions. <i>Physical Review B</i> , 2009 , 79,	3.3	25
158	Electronic structure of substitutional Mn in epitaxial In _{0.965} Mn _{0.035} Sb film. <i>Applied Physics Letters</i> , 2009 , 95, 201905	3.4	7
157	Ferromagnetic semiconductors and the role of disorder. <i>New Journal of Physics</i> , 2008 , 10, 055008	2.9	28
156	Highly efficient broadband second harmonic generation using polydomain epitaxial barium titanate thin film waveguides. <i>Applied Physics Letters</i> , 2008 , 92, 221103	3.4	15
155	Magnetocapacitance effect in InMnAs/InAs p-n heterojunctions. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1526		3
154	Interfacial structure and chemistry of epitaxial CoFe ₂ O ₄ thin films on SrTiO ₃ and MgO substrates. <i>Applied Physics Letters</i> , 2008 , 93, 181901	3.4	38
153	Dynamic response of polydomain ferroelectric barium titanate epitaxial thin films and its field dependence. <i>Journal of Applied Physics</i> , 2008 , 104, 064115	2.5	8
152	Dependence of magnetic circular dichroism on doping and temperature in In _{1-x} Mn _x As epitaxial films. <i>Physical Review B</i> , 2007 , 76,	3.3	14
151	Ferroelectric Epitaxial Thin Films for Integrated Optics. <i>Annual Review of Materials Research</i> , 2007 , 37, 659-679	12.8	125
150	Epitaxial growth and strain relaxation of BaTiO ₃ thin films on SrTiO ₃ buffered (001) Si by molecular beam epitaxy. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1053		36
149	Phase stability of heteroepitaxial polydomain BaTiO ₃ thin films. <i>Journal of Materials Research</i> , 2007 , 22, 1384-1389	2.5	5
148	Bragg Reflector Waveguide and Electro-Optic Modulator Based on Barium Titanate Epitaxial Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1014, 1		
147	Simulation and Fabrication of Two Dimensional Nonlinear Photonic Crystals using Barium Titanate Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1014, 1		1
146	Epitaxial growth and strain relaxation of MgO thin films on Si grown by molecular beam epitaxy. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2586		25
145	Evidence of room temperature sp-d exchange in InMnAs epitaxial films. <i>Applied Physics Letters</i> , 2006 , 89, 102505	3.4	9
144	High-field magnetoresistance in p-(In,Mn)As/InAs heterojunctions. <i>Applied Physics Letters</i> , 2006 , 88, 072105	3.4	26
143	BaTiO ₃ thin-film waveguide modulator with a low voltage-length product at near-infrared wavelengths of 0.98 and 1.55 microm. <i>Optics Letters</i> , 2005 , 30, 254-6	3	37

142	Investigation of composition fluctuations in GaN:Mg using optical transmission spectroscopy, near-field scanning optical microscopy, and scanning Kelvin probe microscopy. <i>Journal of Applied Physics</i> , 2005 , 98, 023513	2.5	11
141	Low temperature deposition of epitaxial BaTiO ₃ films in a rotating disk vertical MOCVD reactor. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1674		15
140	Local environment of ferromagnetically ordered Mn in epitaxial InMnAs. <i>Applied Physics Letters</i> , 2005 , 86, 072505	3.4	16
139	Optical investigation of electronic states of Mn ⁴⁺ ions in p-type GaN. <i>Applied Physics Letters</i> , 2005 , 86, 042505	3.4	26
138	Negative magnetoresistance in (In,Mn)As semiconductors. <i>Physical Review B</i> , 2004 , 70,	3.3	32
137	Optical properties of Mn ⁴⁺ ions in GaN:Mn codoped with Mg acceptors. <i>Applied Physics Letters</i> , 2004 , 84, 5320-5322	3.4	27
136	Three Dimensional Domain Structure in Epitaxial Barium Titanate Thin Films. <i>Journal of Electroceramics</i> , 2004 , 13, 89-93	1.5	13
135	Thin Film Ferroelectrics for Guided Wave Devices. <i>Journal of Electroceramics</i> , 2004 , 13, 135-138	1.5	8
134	Integration of MgO on Si(001) Using SrO and SrTiO ₃ Buffer Layers by Molecular Beam Epitaxy. <i>Journal of Electroceramics</i> , 2004 , 13, 149-154	1.5	6
133	Phonon-assisted deep level luminescence in heavily Mg-doped InGaN. <i>Journal of Electronic Materials</i> , 2004 , 33, 431-435	1.9	3
132	Local structure around Mn atoms in room-temperature ferromagnetic (In,Mn)As thin films probed by extended x-ray absorption fine structure. <i>Applied Physics Letters</i> , 2004 , 84, 481-483	3.4	45
131	Low-voltage, polarization-insensitive, electro-optic modulator based on a polydomain barium titanate thin film. <i>Applied Physics Letters</i> , 2004 , 85, 4615-4617	3.4	55
130	Electrooptic modulation up to 40 GHz in a barium titanate thin film waveguide modulator. <i>Optics Express</i> , 2004 , 12, 5962-7	3.3	69
129	Blue emission band in compensated GaN:Mg codoped with Si. <i>Physical Review B</i> , 2003 , 68,	3.3	29
128	Nanosecond-Scale Domain Dynamics in BaTiO ₃ Probed by Time-Resolved X-Ray Diffraction. <i>Ferroelectrics</i> , 2003 , 290, 115-124	0.6	5
127	Dielectric properties of plasma-spray-deposited BaTiO ₃ and Ba _{0.68} Sr _{0.32} TiO ₃ thick films. <i>Journal of Materials Research</i> , 2003 , 18, 1227-1231	2.5	9
126	Relative dielectric constant of epitaxial BaTiO ₃ thin films in the GHz frequency range. <i>Applied Physics Letters</i> , 2003 , 83, 5274-5276	3.4	33
125	Phase stability of epitaxial KTa _x Nb _{1-x} O ₃ thin films deposited by metalorganic chemical vapor deposition. <i>Journal of Materials Research</i> , 2003 , 18, 106-110	2.5	15

124	Dynamic response of the dielectric and electro-optic properties of epitaxial ferroelectric thin films. <i>Physical Review B</i> , 2002 , 65,	3-3	23
123	Optical properties of the deep Mn acceptor in GaN:Mn. <i>Applied Physics Letters</i> , 2002 , 80, 1731-1733	3-4	134
122	Dielectric properties of epitaxial KNbO ₃ ferroelectric thin films. <i>Journal of Materials Research</i> , 2002 , 17, 275-278	2-5	21
121	Ferromagnetism in (In,Mn)As diluted magnetic semiconductor thin films grown by metalorganic vapor phase epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 1582		29
120	Deep Donor-Acceptor Pair Luminescence in Codoped GaN. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L5.8.1		1
119	Interfacial Layer Effects in Ba _{1-x} Sr _x TiO ₃ Thick Films prepared by Plasma Spray. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 758, 271		2
118	Diffuse Phase Transition in Epitaxial BaTiO ₃ Thin Films. <i>Journal of Materials Research</i> , 2002 , 17, 669-674	2.5	20
117	Fast time-resolved x-ray diffraction in BaTiO ₃ films subjected to a strong high-frequency electric field. <i>Applied Physics Letters</i> , 2002 , 80, 3159-3161	3-4	22
116	Growth and characterization of OMVPE grown (In,Mn)As diluted magnetic semiconductor. <i>Journal of Electronic Materials</i> , 2001 , 30, 1408-1411	1.9	46
115	Electrical properties of p-type GaN:Mg codoped with oxygen. <i>Applied Physics Letters</i> , 2001 , 78, 222-224	3-4	78
114	Comparative optical studies of p-type and unintentionally doped GaN: The influence of annealing. <i>Applied Physics Letters</i> , 2001 , 78, 58-60	3-4	12
113	Erbium-Doped Barium Titanate Thin Film Waveguides for Integrated Optical Amplifiers. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 688, 1		3
112	Erbium-Doped Barium Titanate Thin Film Waveguides for Integrated Optical Amplifiers. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 694, 1		
111	Dielectric Properties of Spray Deposited BaTiO ₃ and Ba _{0.68} Sr _{0.32} TiO ₃ . <i>Materials Research Society Symposia Proceedings</i> , 2001 , 698, 361		2
110	Metalorganic Molecular Beam Epitaxy of Magnesium Oxide on Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 619, 149		6
109	Epitaxial Ferroelectric BaTiO ₃ Thin Films for Microphotonic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 637, E1.9.1		7
108	Deep Level Formation in Undoped and Oxygen-Doped GaN. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 11561		
107	Photoluminescence Studies of p-type GaN:Mg Co-doped with Oxygen. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 6391		2

106	MOCVD of Epitaxial BaTiO ₃ Films Using a Liquid Barium Precursor. <i>Chemical Vapor Deposition</i> , 2000 , 6, 175-177		30
105	Combinatorial Generation and Analysis of Nanometer- and Micrometer-Scale Silicon Features via Dip-Pen Nanolithography and Wet Chemical Etching. <i>Advanced Materials</i> , 2000 , 12, 1600-1603	24	113
104	Electrical Properties of Oxygen Doped GaN Grown by Metalorganic Vapor Phase Epitaxy. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 2000 , 5, 301-307		6
103	Photoluminescence band near 2.9 eV in undoped GaN epitaxial layers. <i>Journal of Applied Physics</i> , 2000 , 87, 3351-3354	2.5	93
102	Optical Study of GaN Doped with Mn Grown by Metal Organic Vapor Phase Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 371		4
101	Investigation of the formation of the 2.8 eV luminescence band in p-type GaN:Mg. <i>Applied Physics Letters</i> , 2000 , 76, 3011-3013	3.4	99
100	Pressure dependence of the blue luminescence in Mg-doped GaN. <i>Applied Physics Letters</i> , 2000 , 77, 2536-2538	5	5
99	Combinatorial Generation and Analysis of Nanometer- and Micrometer-Scale Silicon Features via Dip-Pen Nanolithography and Wet Chemical Etching 2000 , 12, 1600		2
98	Defect Luminescence in Heavily Mg Doped GaN. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1999 , 4, 968-973		3
97	Dynamic response of the electro-optic effect in epitaxial KNbO ₃ . <i>Applied Physics Letters</i> , 1999 , 75, 2707-2709	3.4	22
96	Behavior of 2.8- and 3.2-eV photoluminescence bands in Mg-doped GaN at different temperatures and excitation densities. <i>Physical Review B</i> , 1999 , 59, 13176-13183	3.3	205
95	Electrical Properties of Oxygen Doped GaN Grown by Metalorganic Vapor Phase Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 595, 1		3
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