

Bruce W Wessels

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Photoluminescence spectroscopy of excitonic emission in CsPbCl ₃ perovskite single crystals. Journal of Luminescence, 2022, 243, 118661.	1.5	11
2	Defect levels in CsPbCl ₃ single crystals determined by thermally stimulated current spectroscopy. Journal of Applied Physics, 2022, 132, .	1.1	6
3	CsPbBr ₃ perovskite detectors with 1.4% energy resolution for high-energy $\hat{\Gamma}^3$ -rays. Nature Photonics, 2021, 15, 36-42.	15.6	210
4	Demonstration of Energy-Resolved $\hat{\Gamma}^3$ -Ray Detection at Room Temperature by the CsPbCl ₃ Perovskite Semiconductor. Journal of the American Chemical Society, 2021, 143, 2068-2077.	6.6	62
5	Inorganic Halide Perovskitoid TlPbI ₃ for Ionizing Radiation Detection. Advanced Functional Materials, 2021, 31, 2006635.	7.8	16
6	Excitons in CsPbBr ₃ Halide Perovskite. Journal of Physical Chemistry Letters, 2021, 12, 9301-9307.	2.1	8
7	Direct thermal neutron detection by the 2D semiconductor 6LiInP ₂ Se ₆ . Nature, 2020, 577, 346-349.	13.7	59
8	Perovskites with a Twist: Strong In ¹⁺ Off-Centering in the Mixed-Valent CsInX ₃ (X = Cl, Br). Chemistry of Materials, 2019, 31, 9554-9566.	3.2	22
9	Monte Carlo simulation of transport properties in wide gap Hg ₃ Se ₂ I ₂ . Semiconductor Science and Technology, 2019, 34, 115003.	1.0	1
10	Purification and Improved Nuclear Radiation Detection of Tl ₆ SI ₄ Semiconductor. Crystal Growth and Design, 2019, 19, 4738-4744.	1.4	4
11	Controlling the Vapor Transport Crystal Growth of Hg ₃ Se ₂ I ₂ Hard Radiation Detector Using Organic Polymer. Crystal Growth and Design, 2019, 19, 2074-2080.	1.4	7
12	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. Chemistry of Materials, 2019, 31, 2644-2650.	3.2	111
13	Carrier recombination mechanism in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \text{CsPbB} \langle \text{mml:msub} \langle \text{mml:mi} \text{1.1} \text{mathvariant="normal"} \rangle \text{r} \langle \text{mml:mi} \langle \text{mml:mn} \text{3} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{revealed by time-resolved photoluminescence spectroscopy. Physical Review B. 2019. 100.}$	1.1	14
14	Noise sources and their limitations on the performance of compound semiconductor hard radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 916, 133-140.	0.7	4
15	Perovskite CsPbBr ₃ single crystal detector for alpha-particle spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 922, 217-221.	0.7	83
16	High spectral resolution of gamma-rays at room temperature by perovskite CsPbBr ₃ single crystals. Nature Communications, 2018, 9, 1609.	5.8	381
17	An Effective Purification Process for the Nuclear Radiation Detector Tl ₆ SeI ₄ . Crystal Growth and Design, 2018, 18, 3484-3493.	1.4	9
18	Cu ₂ I ₂ Se ₆ : A Metal-Inorganic Framework Wide-Bandgap Semiconductor for Photon Detection at Room Temperature. Journal of the American Chemical Society, 2018, 140, 1894-1899.	6.6	19

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19	Role of Stoichiometry in the Growth of Large $\text{Pb}_2\text{P}_2\text{Se}_6$ Crystals for Nuclear Radiation Detection. ACS Photonics, 2018, 5, 566-573.	3.2	15
20	Dynamic Disorder, Band Gap Widening, and Persistent Near-IR Photoluminescence up to At Least 523 K in ASn_3 Perovskites (A = Cs, CH ₃ NH ₃) $\text{Tj ETQq000rgBTj/Overlock}$ 26353-26361.	1.5	26
21	Deep Level and Near-Edge Recombination in Semiconducting Antiperovskite $\text{Hg}_3\text{Se}_2\text{I}_2$ Single Crystals. Advanced Optical Materials, 2018, 6, 1800328.	3.6	2
22	Resolving the Energy of I^3 -Ray Photons with MAPbI_3 Single Crystals. ACS Photonics, 2018, 5, 4132-4138.	3.2	100
23	I^\pm -Particle Detection and Charge Transport Characteristics in the $\text{A}_3\text{M}_2\text{I}_9$ Defect Perovskites (A = Cs, Rb; M = Bi, Sb). ACS Photonics, 2018, 5, 3748-3762.	3.2	88
24	Defect Antiperovskite Compounds $\text{Hg}_3\text{Q}_2\text{I}_2$ (Q = S, Se, and Te) for Room-Temperature Hard Radiation Detection. Journal of the American Chemical Society, 2017, 139, 7939-7951.	6.6	45
25	Strong Electron-Phonon Coupling and Self-Trapped Excitons in the Defect Halide Perovskites $\text{A}_3\text{M}_2\text{I}_9$ (A = Cs, Rb; M = Bi, Sb). Chemistry of Materials, 2017, 29, 4129-4145.	3.2	509
26	TlSn_2I_5 , a Robust Halide Antiperovskite Semiconductor for I^3 -Ray Detection at Room Temperature. ACS Photonics, 2017, 4, 1805-1813.	3.2	33
27	Charge Transport and Observation of Persistent Photoconductivity in Tl_6Se_4 Single Crystals. Journal of Physical Chemistry Letters, 2017, 8, 1538-1544.	2.1	15
28	TlSb_2 : a Semiconductor for Hard Radiation Detection. ACS Photonics, 2017, 4, 2891-2898.	3.2	11
29	Electronic defects in the halide antiperovskite semiconductor Hg_3I_2 . Physical Review B, 2017, 96, .	1.1	3
30	Improved Crystal Growth of Tl_6Se_4 for I^3 -Ray Detection Material by Oxide Impurity Removal. Crystal Growth and Design, 2017, 17, 6096-6104.	1.4	6
31	$\chi^{(2)}$ Modulator With 40-GHz Modulation Utilizing BaTiO_3 Photonic Crystal Waveguides. IEEE Journal of Quantum Electronics, 2017, 53, 1-10.	1.0	26
32	Cascaded spintronic logic with low-dimensional carbon. Nature Communications, 2017, 8, 15635.	5.8	39
33	Charge Transport Mechanisms in a $\text{Pb}_2\text{P}_2\text{Se}_6$ Semiconductor. ACS Photonics, 2016, 3, 1877-1887.	3.2	6
34	Refined Synthesis and Crystal Growth of $\text{Pb}_2\text{P}_2\text{Se}_6$ for Hard Radiation Detectors. Crystal Growth and Design, 2016, 16, 5100-5109.	1.4	12
35	Photoluminescence fatigue and inhomogeneous line broadening in semi-insulating Tl_6Se_4 single crystals. Semiconductor Science and Technology, 2016, 31, 065009.	1.0	16
36	Integrated BaTiO_3 modulator with 8 dB extinction at 50 GHz and 25 km reach. , 2016, .		2

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37	An Unusual Crystal Growth Method of the Chalcogenide Semiconductor, $\text{I}^2\text{-Hg}_3\text{S}_2\text{Cl}_2$: A New Candidate for Hard Radiation Detection. Crystal Growth and Design, 2016, 16, 2678-2684.	1.4	16
38	High-field magnetic circular dichroism in ferromagnetic InMnSb and InMnAs: Spin-orbit-split hole bands and g factors. Physical Review B, 2015, 92, .	1.1	8
39	r and g factors in CsPbBr_3 and CsPbCl_3 semiconductors. Physical Review B, 2015, 92, .	1.1	250
40	Mn doped InSb studied at the atomic scale by cross-sectional scanning tunneling microscopy. Applied Physics Letters, 2015, 107, .	1.5	4
41	Bilayer avalanche spin-diode logic. AIP Advances, 2015, 5, 117102.	0.6	8
42	Hard Radiation Detection from the Selenophosphate $\text{Pb}_2\text{P}_2\text{Se}_6$. Advanced Functional Materials, 2015, 25, 4874-4881.	7.8	33
43	Emitter-Coupled Spin-Transistor Logic: Cascaded Spintronic Computing Beyond 10 GHz. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 17-27.	2.7	11
44	Characterization of deep level defects in Tl6I4S single crystals by photo-induced current transient spectroscopy. Journal Physics D: Applied Physics, 2015, 48, 075303.	1.3	2
45	Charge Transport in Magnetic Semiconductor p-n Heterojunctions. IEEE Transactions on Electron Devices, 2015, 62, 2470-2474.	1.6	5
46	Magnetism and Mn Clustering in (In,Mn)Sb Magnetic Semiconductors. ACS Applied Materials & Interfaces, 2015, 7, 24159-24167.	4.0	18
47	Optical investigation of defects in semi-insulating $\text{Tl}_6\text{I}_4\text{S}$ single crystals. Physical Review B, 2014, 90, .	1.1	7
48	High-performance computing based on spin-diode logic. Proceedings of SPIE, 2014, .	0.8	1
49	Emitter-coupled spin-transistor logic. Journal of Parallel and Distributed Computing, 2014, 74, 2461-2469.	2.7	8
50	Investigation of Semi-Insulating $\text{Cs}_2\text{Hg}_6\text{S}_7$ and $\text{Cs}_2\text{Hg}_6\text{Cd}_7\text{S}_7$ Alloy for Hard Radiation Detection. Crystal Growth and Design, 2014, 14, 5949-5956.	1.4	11
51	Crystal Growth of Tl_4Cd_6 : A Wide Band Gap Semiconductor for Hard Radiation Detection. Crystal Growth and Design, 2014, 14, 2401-2410.	1.4	35
52	Photo-induced current transient spectroscopy of single crystal $\text{Tl}_6\text{I}_4\text{Se}$. Semiconductor Science and Technology, 2014, 29, 115002.	1.0	6
53	$\text{Cs}_2\text{M}_{II}\text{M}_{IV}\text{Q}_8$ ($\text{Q} = \text{S}, \text{Se}, \text{Te}$): An Extensive Family of Layered Semiconductors with Diverse Band Gaps. Chemistry of Materials, 2013, 25, 3344-3356.	3.2	75
54	Photoconductivity in Tl_6SI_4 : A Novel Semiconductor for Hard Radiation Detection. Chemistry of Materials, 2013, 25, 2868-2877.	3.2	45

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55	Transient photocurrent measurements in alkali chalcogenide ternary compound semiconductors. Semiconductor Science and Technology, 2013, 28, 015022.	1.0	7
56	Crystal Growth of the Perovskite Semiconductor CsPbBr ₃ : A New Material for High-Energy Radiation Detection. Crystal Growth and Design, 2013, 13, 2722-2727.	1.4	1,234
57	CsCdInQ ₃ (Q = Se, Te): New Photoconductive Compounds As Potential Materials for Hard Radiation Detection. Chemistry of Materials, 2013, 25, 2089-2099.	3.2	50
58	Photonic Crystal Waveguide Electro-Optic Modulator With a Wide Bandwidth. Journal of Lightwave Technology, 2013, 31, 1601-1607.	2.7	29
59	Photoconductivity in the Chalcohalide Semiconductor, SbSeI: a New Candidate for Hard Radiation Detection. Inorganic Chemistry, 2013, 52, 7045-7050.	1.9	55
60	MAGNETORESISTANCE OF NARROW GAP MAGNETIC SEMICONDUCTOR HETEROJUNCTIONS. Spin, 2013, 03, 1340011.	0.6	0
61	Cyclotron resonance in ferromagnetic InMnAs and InMnSb. Physical Review B, 2013, 88, .	1.1	15
62	Magnetoresistance in InMnAs/InAs heterojunctions and its dependence on alloy composition and temperature. Applied Physics Letters, 2013, 103, .	1.5	4
63	InMnAs magnetoresistive spin-diode logic. , 2012, , .		5
64	Photoluminescent properties of semiconducting Tl ₆ I ₄ Se. Semiconductor Science and Technology, 2012, 27, 015016.	1.0	5
65	Emitter-coupled spin-transistor logic. , 2012, , .		4
66	Investigation of defect levels in Cs ₂ Hg ₆ S ₇ single crystals by photoconductivity and photoluminescence spectroscopies. Journal of Applied Physics, 2012, 112, 063702.	1.1	14
67	Structural and magnetic properties of epitaxial In _{1-x} Mn _x Sb semiconductor alloys with x=0.08. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 032801.	0.6	5
68	CsHgInS ₃ : a New Quaternary Semiconductor for $\hat{\Gamma}^3$ -ray Detection. Chemistry of Materials, 2012, 24, 4434-4441.	3.2	56
69	Characterization of InMnSb epitaxial films for spintronics. Journal of Physics: Conference Series, 2012, 371, 012032.	0.3	4
70	Mercury and antimony chalcohalide semiconductors as new candidates for radiation detection applications at room temperature. Proceedings of SPIE, 2012, , .	0.8	8
71	Formation of native defects in the $\hat{\Gamma}^3$ -ray detector material Cs ₂ Hg ₆ S ₇ . Applied Physics Letters, 2012, 101, .	1.5	11
72	A Spin-Diode Logic Family. IEEE Nanotechnology Magazine, 2012, 11, 1026-1032.	1.1	28

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73	Ferromagnetic InMnSb multi-phase films study by aberration-corrected (scanning) transmission electron microscopy. Journal of Applied Physics, 2012, 111, 07C311.	1.1	32
74	Crystal Growth and Characterization of the X-ray and $\hat{\Gamma}^3$ -ray Detector Material Cs ₂ Hg ₆ S ₇ . Crystal Growth and Design, 2012, 12, 3250-3256.	1.4	42
75	Time-resolved differential transmission in MOVPE-grown ferromagnetic InMnAs. Physical Review B, 2012, 85, .	1.1	13
76	Spin-dependent magnetotransport in a p-InMnSb/n-InSb magnetic semiconductor heterojunction. Applied Physics Letters, 2011, 98, 193506.	1.5	20
77	Dimensionally reduced heavy atom semiconductors as candidate materials for $\hat{\Gamma}^3$ -ray detection: the case of Cs ₂ Hg ₆ S ₇ . Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	3
78	Thallium Chalcogenide-Based Wide-Band-Gap Semiconductors: TlGaSe ₂ for Radiation Detectors. Chemistry of Materials, 2011, 23, 3120-3128.	3.2	87
79	Thallos chalcogenide (Tl ₆ I ₄ Se) for radiation detection at X-ray and $\hat{\Gamma}^3$ -ray energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 333-335.	0.7	19
80	Thallium Chalcohalides for X-ray and $\hat{\Gamma}^3$ -ray Detection. Journal of the American Chemical Society, 2011, 133, 10030-10033.	6.6	105
81	Dimensional Reduction: A Design Tool for New Radiation Detection Materials. Advanced Materials, 2011, 23, 4163-4167.	11.1	185
82	Alkali Metal Chalcogenides for Radiation Detection. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	3
83	Cyclotron resonance in InMnAs and InMnSb ferromagnetic films. Journal of Physics: Conference Series, 2011, 334, 012056.	0.3	2
84	Local electronic and magnetic structure of mixed ferrite multilayer materials. Physical Review B, 2010, 81, .	1.1	9
85	Strain-driven spin reorientation in magnetite/barium titanate heterostructures. Applied Physics Letters, 2010, 96, .	1.5	32
86	Using the infrared magnetorefractive effect to compare the magnetoresistance in (100) and (111) oriented Fe ₃ O ₄ films. Journal of Applied Physics, 2010, 107, 09B102.	1.1	9
87	High-temperature ferromagnetism in epitaxial (In,Mn)Sb films. Physical Review B, 2010, 81, .	1.1	25
88	Magnetoamplification in a Bipolar Magnetic Junction Transistor. Physical Review Letters, 2010, 105, 117202.	2.9	39
89	Magnetotransport properties of InMnSb magnetic semiconductor thin films. Physical Review B, 2010, 82, .	1.1	54
90	Ferroelectric Thin Film Microcavities and their Optical Resonant Properties. Materials Research Society Symposia Proceedings, 2009, 1182, 24.	0.1	1

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91	Polarization reversal and backswitching dynamics in epitaxial BaTiO ₃ thin films. Journal of Applied Physics, 2009, 106, 054113.	1.1	18
92	Giant magnetoresistance of magnetic semiconductor heterojunctions. Physical Review B, 2009, 79, .	1.1	29
93	Electronic structure of substitutional Mn in epitaxial In _{0.965} Mn _{0.035} Sb film. Applied Physics Letters, 2009, 95, 201905.	1.5	7
94	Ferromagnetic semiconductors and the role of disorder. New Journal of Physics, 2008, 10, 055008.	1.2	30
95	Highly efficient broadband second harmonic generation using polydomain epitaxial barium titanate thin film waveguides. Applied Physics Letters, 2008, 92, .	1.5	16
96	Magnetocapacitance effect in InMnAs ⁺ /InAs p-n heterojunctions. Journal of Vacuum Science & Technology B, 2008, 26, 1526.	1.3	3
97	Interfacial structure and chemistry of epitaxial CoFe ₂ O ₄ thin films on SrTiO ₃ and MgO substrates. Applied Physics Letters, 2008, 93, 181901.	1.5	41
98	Dynamic response of polydomain ferroelectric barium titanate epitaxial thin films and its field dependence. Journal of Applied Physics, 2008, 104, 064115.	1.1	8
99	Epitaxial growth and strain relaxation of BaTiO ₃ thin films on SrTiO ₃ buffered (001) Si by molecular beam epitaxy. Journal of Vacuum Science & Technology B, 2007, 25, 1053.	1.3	40
100	Phase stability of heteroepitaxial polydomain BaTiO ₃ thin films. Journal of Materials Research, 2007, 22, 1384-1389.	1.2	5
101	Bragg Reflector Waveguide and Electro-Optic Modulator Based on Barium Titanate Epitaxial Thin Films. Materials Research Society Symposia Proceedings, 2007, 1014, 1.	0.1	0
102	Simulation and Fabrication of Two Dimensional Nonlinear Photonic Crystals using Barium Titanate Thin Films. Materials Research Society Symposia Proceedings, 2007, 1014, 1.	0.1	4
103	Dependence of magnetic circular dichroism on doping and temperature in $\ln_{1-x}\text{Mn}_x\text{As}$ epitaxial films. Physical Review B, 2007, 76, .	1.1	14
104	Ferroelectric Epitaxial Thin Films for Integrated Optics. Annual Review of Materials Research, 2007, 37, 659-679.	4.3	149
105	High-field magnetoresistance in p-(In,Mn)As ⁺ /n-InAs heterojunctions. Applied Physics Letters, 2006, 88, 072105.	1.5	26
106	InMnAs/InAs Heterojunctions for High-Field Magnetic Sensors. , 2006, , .		0
107	Epitaxial growth and strain relaxation of MgO thin films on Si grown by molecular beam epitaxy. Journal of Vacuum Science & Technology B, 2006, 24, 2586.	1.3	28
108	Evidence of room temperature sp-d exchange in InMnAs epitaxial films. Applied Physics Letters, 2006, 89, 102505.	1.5	10

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109	Measurement of Minority Carrier Diffusion Lengths in Semiconductor Nanowires. , 2006, , .		1
110	Low temperature deposition of epitaxial BaTiO ₃ films in a rotating disk vertical MOCVD reactor. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1674.	1.6	15
111	Local environment of ferromagnetically ordered Mn in epitaxial InMnAs. Applied Physics Letters, 2005, 86, 072505.	1.5	16
112	Optical investigation of electronic states of Mn ⁴⁺ ions in p-type GaN. Applied Physics Letters, 2005, 86, 042505.	1.5	30
113	BaTiO ₃ thin-film waveguide modulator with a low voltage length product at near-infrared wavelengths of 098 and 155 Åµm. Optics Letters, 2005, 30, 254.	1.7	40
114	Investigation of composition fluctuations in GaN:Mg using optical transmission spectroscopy, near-field scanning optical microscopy, and scanning Kelvin probe microscopy. Journal of Applied Physics, 2005, 98, 023513.	1.1	13
115	Negative magnetoresistance in (In,Mn)As semiconductors. Physical Review B, 2004, 70, .	1.1	35
116	Optical properties of Mn ⁴⁺ ions in GaN:Mn codoped with Mg acceptors. Applied Physics Letters, 2004, 84, 5320-5322.	1.5	32
117	Three Dimensional Domain Structure in Epitaxial Barium Titanate Thin Films. Journal of Electroceramics, 2004, 13, 89-93.	0.8	13
118	Thin Film Ferroelectrics for Guided Wave Devices. Journal of Electroceramics, 2004, 13, 135-138.	0.8	9
119	Integration of MgO on Si(001) Using SrO and SrTiO ₃ Buffer Layers by Molecular Beam Epitaxy. Journal of Electroceramics, 2004, 13, 149-154.	0.8	6
120	Phonon-assisted deep level luminescence in heavily Mg-doped InGaN. Journal of Electronic Materials, 2004, 33, 431-435.	1.0	3
121	Local structure around Mn atoms in room-temperature ferromagnetic (In,Mn)As thin films probed by extended x-ray absorption fine structure. Applied Physics Letters, 2004, 84, 481-483.	1.5	45
122	Low-voltage, polarization-insensitive, electro-optic modulator based on a polydomain barium titanate thin film. Applied Physics Letters, 2004, 85, 4615-4617.	1.5	66
123	Electrooptic modulation up to 40 GHz in a barium titanate thin film waveguide modulator. Optics Express, 2004, 12, 5962.	1.7	85
124	Blue emission band in compensated GaN:Mg codoped with Si. Physical Review B, 2003, 68, .	1.1	30
125	Nanosecond-Scale Domain Dynamics in BaTiO ₃ Probed by Time-Resolved X-Ray Diffraction. Ferroelectrics, 2003, 290, 115-124.	0.3	6
126	Dielectric properties of plasma-spray-deposited BaTiO ₃ and Ba _{0.68} Sr _{0.32} TiO ₃ thick films. Journal of Materials Research, 2003, 18, 1227-1231.	1.2	9

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127	Relative dielectric constant of epitaxial BaTiO ₃ thin films in the GHz frequency range. Applied Physics Letters, 2003, 83, 5274-5276.	1.5	46
128	Phase stability of epitaxial K _{1-x} Ta _x Nb _{1-x} O ₃ thin films deposited by metalorganic chemical vapor deposition. Journal of Materials Research, 2003, 18, 106-110.	1.2	16
129	Dynamic response of the dielectric and electro-optic properties of epitaxial ferroelectric thin films. Physical Review B, 2002, 65, .	1.1	23
130	Optical properties of the deep Mn acceptor in GaN:Mn. Applied Physics Letters, 2002, 80, 1731-1733.	1.5	152
131	Dielectric properties of epitaxial KNbO ₃ ferroelectric thin films. Journal of Materials Research, 2002, 17, 275-278.	1.2	22
132	Ferromagnetism in (In,Mn)As diluted magnetic semiconductor thin films grown by metalorganic vapor phase epitaxy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 1582.	1.6	30
133	Deep Donor-Acceptor Pair Luminescence in Codoped GaN. Materials Research Society Symposia Proceedings, 2002, 743, L5.8.1.	0.1	1
134	Interfacial Layer Effects in Ba _{1-x} Sr _x TiO ₃ Thick Films prepared by Plasma Spray. Materials Research Society Symposia Proceedings, 2002, 758, 271.	0.1	2
135	Diffuse Phase Transition in Epitaxial BaTiO ₃ Thin Films. Journal of Materials Research, 2002, 17, 669-674.	1.2	21
136	Fast time-resolved x-ray diffraction in BaTiO ₃ films subjected to a strong high-frequency electric field. Applied Physics Letters, 2002, 80, 3159-3161.	1.5	24
137	Electrical properties of p-type GaN:Mg codoped with oxygen. Applied Physics Letters, 2001, 78, 222-224.	1.5	88
138	Comparative optical studies of p-type and unintentionally doped GaN: The influence of annealing. Applied Physics Letters, 2001, 78, 58-60.	1.5	13
139	Erbium-Doped Barium Titanate Thin Film Waveguides For Integrated Optical Amplifiers. Materials Research Society Symposia Proceedings, 2001, 688, 1.	0.1	3
140	Erbium-Doped Barium Titanate Thin Film Waveguides For Integrated Optical Amplifiers. Materials Research Society Symposia Proceedings, 2001, 694, 1.	0.1	0
141	Dielectric Properties of Spray Deposited BaTiO ₃ and Ba _{0.68} Sr _{0.32} TiO ₃ . Materials Research Society Symposia Proceedings, 2001, 698, 361.	0.1	2
142	Growth and characterization of OMVPE grown (In,Mn)As diluted magnetic semiconductor. Journal of Electronic Materials, 2001, 30, 1408-1411.	1.0	48
143	Metalorganic Molecular Beam Epitaxy of Magnesium Oxide on Silicon. Materials Research Society Symposia Proceedings, 2000, 619, 149.	0.1	7
144	Epitaxial Ferroelectric BaTiO ₃ Thin Films for Microphotonic Applications. Materials Research Society Symposia Proceedings, 2000, 637, E1.9.1.	0.1	8

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145	Deep Level Formation in Undoped and Oxygen-Doped GaN. Materials Research Society Symposia Proceedings, 2000, 639, 11561.	0.1	0
146	Photoluminescence Studies of p-type GaN:Mg Co-doped with Oxygen. Materials Research Society Symposia Proceedings, 2000, 639, 6391.	0.1	2
147	MOCVD of Epitaxial BaTiO ₃ Films Using a Liquid Barium Precursor. Chemical Vapor Deposition, 2000, 6, 175-177.	1.4	32
148	Combinatorial Generation and Analysis of Nanometer- and Micrometer-Scale Silicon Features via Dip-Pen Nanolithography and Wet Chemical Etching. Advanced Materials, 2000, 12, 1600-1603.	11.1	129
149	Electrical Properties of Oxygen Doped GaN Grown by Metalorganic Vapor Phase Epitaxy. MRS Internet Journal of Nitride Semiconductor Research, 2000, 5, 301-307.	1.0	14
150	Photoluminescence band near 2.9 eV in undoped GaN epitaxial layers. Journal of Applied Physics, 2000, 87, 3351-3354.	1.1	103
151	Optical Study of GaN Doped with Mn Grown by Metal Organic Vapor Phase Epitaxy. Materials Research Society Symposia Proceedings, 2000, 639, 371.	0.1	6
152	Investigation of the formation of the 2.8 eV luminescence band in p-type GaN:Mg. Applied Physics Letters, 2000, 76, 3011-3013.	1.5	108
153	Pressure dependence of the blue luminescence in Mg-doped GaN. Applied Physics Letters, 2000, 77, 2536-2538.	1.5	6
154	Combinatorial Generation and Analysis of Nanometer- and Micrometer-Scale Silicon Features via Dip-Pen Nanolithography and Wet Chemical Etching. , 2000, 12, 1600.		2
155	Defect Luminescence in Heavily Mg Doped GaN. MRS Internet Journal of Nitride Semiconductor Research, 1999, 4, 968-973.	1.0	4
156	Dynamic response of the electro-optic effect in epitaxial KNbO ₃ . Applied Physics Letters, 1999, 75, 2707-2709.	1.5	25
157	Behavior of 2.8- and 3.2-eV photoluminescence bands in Mg-doped GaN at different temperatures and excitation densities. Physical Review B, 1999, 59, 13176-13183.	1.1	222
158	Electrical Properties of Oxygen Doped GaN Grown by Metalorganic Vapor Phase Epitaxy. Materials Research Society Symposia Proceedings, 1999, 595, 1.	0.1	5
159	Luminescence Efficiency of Erbium-Doped BaTiO ₃ Thin Films. Materials Research Society Symposia Proceedings, 1999, 597, 15.	0.1	2
160	Dynamic Response of the Electro-Optic Effect in Epitaxial Ferroelectric Thin Films. Materials Research Society Symposia Proceedings, 1999, 597, 157.	0.1	5
161	Growth of MgO by Metal-Organic Molecular Beam Epitaxy. Materials Research Society Symposia Proceedings, 1999, 606, 45.	0.1	4
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