

Christopher M Rouleau

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.

154
papers

8,409
citations

49
h-index

88
g-index

161
ext. papers

9,438
ext. citations

9
avg, IF

5.76
L-index

#	Paper	IF	Citations
154	Selective Antisite Defect Formation in WS Monolayers via Reactive Growth on Dilute W-Au Alloy Substrates. <i>Advanced Materials</i> , 2021 , e2106674	24	2
153	Exploring the Spatial Control of Topotactic Phase Transitions Using Vertically Oriented Epitaxial Interfaces. <i>Nano-Micro Letters</i> , 2021 , 14, 2	19.5	2
152	Strain-Induced Growth of Twisted Bilayers during the Coalescence of Monolayer MoS Crystals. <i>ACS Nano</i> , 2021 , 15, 4504-4517	16.7	5
151	Understanding Substrate-Guided Assembly in van der Waals Epitaxy by Laser Crystallization within a Transmission Electron Microscope. <i>ACS Nano</i> , 2021 , 15, 8638-8652	16.7	3
150	Substoichiometric Tuning of the Electronic Properties of Titania. <i>Thin Solid Films</i> , 2021 , 717, 138437	2.2	3
149	Intrinsic Defects in MoS Grown by Pulsed Laser Deposition: From Monolayers to Bilayers. <i>ACS Nano</i> , 2021 , 15, 2858-2868	16.7	8
148	Two-Dimensional Palladium Diselenide with Strong In-Plane Optical Anisotropy and High Mobility Grown by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2020 , 32, e1906238	24	54
147	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. <i>ACS Nano</i> , 2020 , 14, 3896-3906	16.7	56
146	In situ laser reflectivity to monitor and control the nucleation and growth of atomically thin 2D materials*. <i>2D Materials</i> , 2020 , 7, 025048	5.9	6
145	Investigating local oxidation processes in Fe thin films in a water vapor environment by in situ liquid cell TEM. <i>Ultramicroscopy</i> , 2020 , 209, 112842	3.1	9
144	Unusual electrical conductivity driven by localized stoichiometry modification at vertical epitaxial interfaces. <i>Materials Horizons</i> , 2020 , 7, 3217-3225	14.4	3
143	Permanently Magnetized Insulating Thin-Film Devices by Reduction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000346	2.5	
142	Designing Morphotropic Phase Composition in BiFeO. <i>Nano Letters</i> , 2019 , 19, 1033-1038	11.5	22
141	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS. <i>ACS Nano</i> , 2019 , 13, 2481-2489	16.7	32
140	Strain tolerance of two-dimensional crystal growth on curved surfaces. <i>Science Advances</i> , 2019 , 5, eaav4028	40.8	29
139	Defect-Mediated Phase Transformation in Anisotropic Two-Dimensional PdSe Crystals for Seamless Electrical Contacts. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8928-8936	16.4	50
138	Monolayer Ti ₃ C ₂ T _x as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO ₂ . <i>ACS Applied Energy Materials</i> , 2019 , 2, 4640-4651	6.1	113

137	Low-Temperature Charging Dynamics of the Ionic Liquid and Its Gating Effect on FeSeTe Superconducting Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17979-17986	9.5	4
136	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in MgTiO ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19970-19978	3.8	3
135	2D/2D heterojunction of TiC/g-CN nanosheets for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019 , 11, 8138-8149	7.7	197
134	Room-Temperature Insulating Ferromagnetic (Ni,Co) _{1+2x} Ti _{1-x} O ₃ Thin Films. <i>Annalen Der Physik</i> , 2019 , 531, 1900299	2.6	5
133	Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites. <i>Advanced Materials</i> , 2018 , 30, e1705801	24	45
132	The growth and assembly of organic molecules and inorganic 2D materials on graphene for van der Waals heterostructures. <i>Carbon</i> , 2018 , 131, 246-257	10.4	19
131	Influence of Nonstoichiometry on Proton Conductivity in Thin-Film Yttrium-Doped Barium Zirconate. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4816-4823	9.5	11
130	Vacuum-Assisted Low-Temperature Synthesis of Reduced Graphene Oxide Thin-Film Electrodes for High-Performance Transparent and Flexible All-Solid-State Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11008-11017	9.5	43
129	Magnetic order multilayering in FeRh thin films by He-Ion irradiation. <i>Materials Research Letters</i> , 2018 , 6, 106-112	7.4	24
128	Self-Powered Fast Brazing of Ti-6Al-4V Using Ni/Al Reactive Multilayer Films. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 985	2.6	4
127	Speciation and Electronic Structure of La _{1-x} Sr _x CoO ₃ During Oxygen Electrolysis. <i>Topics in Catalysis</i> , 2018 , 61, 2161-2174	2.3	24
126	In situ edge engineering in two-dimensional transition metal dichalcogenides. <i>Nature Communications</i> , 2018 , 9, 2051	17.4	60
125	The Influence of Local Distortions on Proton Mobility in Acceptor Doped Perovskites. <i>Chemistry of Materials</i> , 2018 , 30, 4919-4925	9.6	23
124	Layer-by-layer epitaxial thin films of the pyrochlore TbTiO ₃ . <i>Nanotechnology</i> , 2017 , 28, 055708	3.4	5
123	Black Anatase Formation by Annealing of Amorphous Nanoparticles and the Role of the TiO ₂ Shell in Self-Organized Crystallization by Particle Attachment. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22018-22025	9.5	15
122	Vacancy filled nickel-cobalt-titanate thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600799	9.9	5
121	Edge-Controlled Growth and Etching of Two-Dimensional GaSe Monolayers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 482-491	16.4	50
120	Nanostructured carbon electrocatalyst supports for intermediate-temperature fuel cells: Single-walled versus multi-walled structures. <i>Journal of Power Sources</i> , 2017 , 337, 145-151	8.9	11

119	PdSe: Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14090-14097	16.4	318
118	The Role of Ru Redox in pH-Dependent Oxygen Evolution on Rutile Ruthenium Dioxide Surfaces. <i>CheM</i> , 2017 , 2, 668-675	16.2	102
117	UV-activated ZnO films on a flexible substrate for room temperature O and HO sensing. <i>Scientific Reports</i> , 2017 , 7, 6053	4.9	44
116	Bottom up synthesis of boron-doped graphene for stable intermediate temperature fuel cell electrodes. <i>Carbon</i> , 2017 , 123, 605-615	10.4	16
115	Nonequilibrium Synthesis of TiO Nanoparticle "Building Blocks" for Crystal Growth by Sequential Attachment in Pulsed Laser Deposition. <i>Nano Letters</i> , 2017 , 17, 4624-4633	11.5	25
114	Suppression of Defects and Deep Levels Using Isoelectronic Tungsten Substitution in Monolayer MoSe ₂ . <i>Advanced Functional Materials</i> , 2017 , 27, 1603850	15.6	62
113	Stabilizing Ir(001) Epitaxy on Yttria-Stabilized Zirconia Using a Thin Ir Seed Layer Grown by Pulsed Laser Deposition. <i>Crystal Growth and Design</i> , 2017 , 17, 89-94	3.5	2
112	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. <i>ACS Photonics</i> , 2016 , 3, 2389-2395	6.3	34
111	Isoelectronic Tungsten Doping in Monolayer MoSe for Carrier Type Modulation. <i>Advanced Materials</i> , 2016 , 28, 8240-8247	24	69
110	Tailoring Vacancies Far Beyond Intrinsic Levels Changes the Carrier Type and Optical Response in Monolayer MoSe _{2-x} Crystals. <i>Nano Letters</i> , 2016 , 16, 5213-20	11.5	85
109	Two-dimensional GaSe/MoSe ₂ misfit bilayer heterojunctions by van der Waals epitaxy. <i>Science Advances</i> , 2016 , 2, e1501882	14.3	190
108	Ultrafast Charge Transfer and Hybrid Exciton Formation in 2D/0D Heterostructures. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14713-14719	16.4	72
107	Observation of Nanoscale Morphological and Structural Degradation in Perovskite Solar Cells by in Situ TEM. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32333-32340	9.5	43
106	Interlayer Coupling in Twisted WSe ₂ /WS ₂ Bilayer Heterostructures Revealed by Optical Spectroscopy. <i>ACS Nano</i> , 2016 , 10, 6612-22	16.7	181
105	Low temperature synthesis of hierarchical TiO nanostructures for high performance perovskite solar cells by pulsed laser deposition. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27067-27072	3.6	24
104	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. <i>Analytical Chemistry</i> , 2016 , 88, 645-52	7.8	90
103	Deciphering Halogen Competition in Organometallic Halide Perovskite Growth. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5028-35	16.4	82
102	Thickness-dependent charge transport in few-layer MoS ₂ field-effect transistors. <i>Nanotechnology</i> , 2016 , 27, 165203	3.4	96

101	Ultrathin nanosheets of CrSiTe ₃ : a semiconducting two-dimensional ferromagnetic material. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 315-322	7.1	171
100	Growth control of oxygen stoichiometry in homoepitaxial SrTiO ₃ films by pulsed laser epitaxy in high vacuum. <i>Scientific Reports</i> , 2016 , 6, 19941	4.9	66
99	Low thermal budget, photonic-cured compact TiO ₂ layers for high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9685-9690	13	41
98	Persistent photoconductivity in two-dimensional Mo _{1-x} W _x Se ₂ /MoSe ₂ van der Waals heterojunctions. <i>Journal of Materials Research</i> , 2016 , 31, 923-930	2.5	14
97	Van der Waals Epitaxial Growth of Two-Dimensional Single-Crystalline GaSe Domains on Graphene. <i>ACS Nano</i> , 2015 , 9, 8078-88	16.7	87
96	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. <i>Nature Communications</i> , 2015 , 6, 7749	17.4	173
95	Perovskite Solar Cells with Near 100% Internal Quantum Efficiency Based on Large Single Crystalline Grains and Vertical Bulk Heterojunctions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9210-3	16.4	210
94	Structure and Formation Mechanism of Black TiO ₂ Nanoparticles. <i>ACS Nano</i> , 2015 , 9, 10482-8	16.7	136
93	Observation of two distinct negative trions in tungsten disulfide monolayers. <i>Physical Review B</i> , 2015 , 92,	3.3	35
92	Controllable Growth of Perovskite Films by Room-Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14862-5	16.4	37
91	Controllable Growth of Perovskite Films by Room-Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. <i>Angewandte Chemie</i> , 2015 , 127, 15075-15078	3.6	2
90	Revealing the Preferred Interlayer Orientations and Stackings of Two-Dimensional Bilayer Gallium Selenide Crystals. <i>Angewandte Chemie</i> , 2015 , 127, 2750-2755	3.6	5
89	High-Performance Flexible Perovskite Solar Cells by Using a Combination of Ultrasonic Spray-Coating and Low Thermal Budget Photonic Curing. <i>ACS Photonics</i> , 2015 , 2, 680-686	6.3	227
88	Revealing the preferred interlayer orientations and stackings of two-dimensional bilayer gallium selenide crystals. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2712-7	16.4	37
87	Controlled vapor phase growth of single crystalline, two-dimensional GaSe crystals with high photoresponse. <i>Scientific Reports</i> , 2014 , 4, 5497	4.9	194
86	Cooperative island growth of large-area single-crystal graphene on copper using chemical vapor deposition. <i>ACS Nano</i> , 2014 , 8, 5657-69	16.7	84
85	The isotopic effects of deuteration on optoelectronic properties of conducting polymers. <i>Nature Communications</i> , 2014 , 5, 3180	17.4	82
84	Pulsed Laser Deposition of Photoresponsive Two-Dimensional GaSe Nanosheet Networks. <i>Advanced Functional Materials</i> , 2014 , 24, 6365-6371	15.6	90

83	Digital transfer growth of patterned 2D metal chalcogenides by confined nanoparticle evaporation. <i>ACS Nano</i> , 2014 , 8, 11567-75	16.7	39
82	Nanoparticle generation and transport resulting from femtosecond laser ablation of ultrathin metal films: Time-resolved measurements and molecular dynamics simulations. <i>Applied Physics Letters</i> , 2014 , 104, 193106	3.4	34
81	Revealing the surface and bulk regimes of isothermal graphene nucleation and growth on Ni with in situ kinetic measurements and modeling. <i>Carbon</i> , 2014 , 79, 256-264	10.4	16
80	Anorthite sputtering by H ⁺ and Arq ⁺ (q = 19) at solar wind velocities. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8006-8016	2.6	12
79	Catalytic nanoparticles for carbon nanotube growth synthesized by through thin film femtosecond laser ablation 2014 ,		1
78	Slowing of femtosecond laser-generated nanoparticles in a background gas. <i>Applied Physics Letters</i> , 2014 , 105, 213108	3.4	6
77	Real-time optical diagnostics of graphene growth induced by pulsed chemical vapor deposition. <i>Nanoscale</i> , 2013 , 5, 6507-17	7.7	17
76	Nature of the band gap and origin of the electro-/photo-activity of Co ₃ O ₄ . <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4628	7.1	127
75	Fluorination of Brick and mortar-soft-templated graphitic ordered mesoporous carbons for high power lithium-ion battery. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9414	13	18
74	Excimer laser reduction and patterning of graphite oxide. <i>Carbon</i> , 2013 , 53, 81-89	10.4	85
73	A water-soluble polythiophene for organic field-effect transistors. <i>Polymer Chemistry</i> , 2013 , 4, 5270	4.9	69
72	High-temperature transformation of Fe-decorated single-wall carbon nanohorns to nanoysters: a combined experimental and theoretical study. <i>Nanoscale</i> , 2013 , 5, 1849-57	7.7	10
71	Uniform, homogenous coatings of carbon nanohorns on arbitrary substrates from common solvents. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 13153-60	9.5	19
70	Metal-assisted hydrogen storage on Pt-decorated single-walled carbon nanohorns. <i>Carbon</i> , 2012 , 50, 4953-4964	10.4	57
69	Incremental growth of short SWNT arrays by pulsed chemical vapor deposition. <i>Small</i> , 2012 , 8, 1534-42	11	7
68	Spatial and temporal measurements of temperature and cell viability in response to nanoparticle-mediated photothermal therapy. <i>Nanomedicine</i> , 2012 , 7, 1729-42	5.6	13
67	Atomic layer engineering of perovskite oxides for chemically sharp heterointerfaces. <i>Advanced Materials</i> , 2012 , 24, 6423-8	24	46
66	Nanoengineering: Atomic Layer Engineering of Perovskite Oxides for Chemically Sharp Heterointerfaces (Adv. Mater. 48/2012). <i>Advanced Materials</i> , 2012 , 24, 6422-6422	24	

65	Flux-dependent growth kinetics and diameter selectivity in single-wall carbon nanotube arrays. <i>ACS Nano</i> , 2011 , 5, 8311-21	16.7	31
64	The use of low-energy SIMS (LE-SIMS) for nanoscale fuel cell material development. <i>Surface and Interface Analysis</i> , 2011 , 43, 635-638	1.5	2
63	Antioxidant deactivation on graphenic nanocarbon surfaces. <i>Small</i> , 2011 , 7, 2775-85	11	116
62	Single walled carbon nanohorns as photothermal cancer agents. <i>Lasers in Surgery and Medicine</i> , 2011 , 43, 43-51	3.6	62
61	PS-b-P3HT copolymers as P3HT/PCBM interfacial compatibilizers for high efficiency photovoltaics. <i>Advanced Materials</i> , 2011 , 23, 5529-35	24	105
60	An integrated portable Raman sensor with nanofabricated gold bowtie array substrates for energetics detection. <i>Analyst, The</i> , 2011 , 136, 1697-702	5	23
59	Quantitative determination of energy enhanced interlayer transport in pulsed laser deposition of SrTiO ₃ . <i>Physical Review B</i> , 2011 , 84,	3.3	13
58	Narrow and intense resonances in the low-frequency region of surface-enhanced Raman spectra of single-wall carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	6
57	Pulsed growth of vertically aligned nanotube arrays with variable density. <i>ACS Nano</i> , 2010 , 4, 7573-81	16.7	35
56	In vitro and in vivo studies of single-walled carbon nanohorns with encapsulated metallofullerenes and exohedrally functionalized quantum dots. <i>Nano Letters</i> , 2010 , 10, 2843-8	11.5	49
55	A Facile High-speed Vibration Milling Method to Water-disperse Single-walled Carbon Nanohorns. <i>Chemistry of Materials</i> , 2010 , 22, 347-351	9.6	19
54	Anomalous Oxidation States in Multilayers for Fuel Cell Applications. <i>Advanced Functional Materials</i> , 2010 , 20, 2664-2674	15.6	16
53	Functionally graded hydroxyapatite coatings doped with antibacterial components. <i>Acta Biomaterialia</i> , 2010 , 6, 2264-73	10.8	124
52	Model for Self-Assembly of Carbon Nanotubes from Acetylene Based on Real-Time Studies of Vertically Aligned Growth Kinetics. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15484-15491	3.8	52
51	Real-time imaging of vertically aligned carbon nanotube array growth kinetics. <i>Nanotechnology</i> , 2008 , 19, 055605	3.4	56
50	Cumulative and continuous laser vaporization synthesis of single wall carbon nanotubes and nanohorns. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 849-855	2.6	30
49	Interfaces in perovskite heterostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 807-811	2.6	11
48	Altering the catalytic activity of thin metal catalyst films for controlled growth of chemical vapor deposited vertically aligned carbon nanotube arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 1005-1009	2.6	7

47	Pulsed laser CVD investigations of single-wall carbon nanotube growth dynamics. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 987-993	2.6	24
46	In situ time-resolved measurements of carbon nanotube and nanohorn growth. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3944-3949	1.3	14
45	Nonequilibrium interlayer transport in pulsed laser deposition. <i>Physical Review Letters</i> , 2006 , 96, 226104	7.4	44
44	Normal-incidence generalized ellipsometry using the two-modulator generalized ellipsometry microscope. <i>Applied Optics</i> , 2006 , 45, 5479-88	1.7	21
43	Generalized ellipsometry in unusual configurations. <i>Applied Surface Science</i> , 2006 , 253, 47-51	6.7	2
42	Determination of optical birefringence by using off-axis transmission ellipsometry. <i>Applied Optics</i> , 2005 , 44, 3153-9	1.7	13
41	A laser-deposition approach to compositional-spread discovery of materials on conventional sample sizes. <i>Measurement Science and Technology</i> , 2005 , 16, 21-31	2	16
40	Pulsed electron deposition of fluorine-based precursors for YBa ₂ Cu ₃ O _{7-x} -coated conductors. <i>Superconductor Science and Technology</i> , 2005 , 18, 1168-1175	3.1	19
39	R&D of RABiTS-based coated conductors: Conversion of ex situ YBCO superconductor using a novel pulsed electron-beam deposited precursor. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 878-886	1.3	8
38	Nanoscale effects on the ionic conductivity in highly textured YSZ thin films. <i>Solid State Ionics</i> , 2005 , 176, 1319-1326	3.3	280
37	Strong polarization enhancement in asymmetric three-component ferroelectric superlattices. <i>Nature</i> , 2005 , 433, 395-9	50.4	574
36	Thermal stability of epitaxial SrRuO ₃ films as a function of oxygen pressure. <i>Applied Physics Letters</i> , 2004 , 84, 4107-4109	3.4	64
35	High-throughput growth temperature optimization of ferroelectric Sr _x Ba _{1-x} Nb ₂ O ₆ epitaxial thin films using a temperature gradient method. <i>Applied Physics Letters</i> , 2004 , 84, 1350-1352	3.4	30
34	Surface/Interface-Related Conductivity in Nanometer Thick YSZ Films. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A459		73
33	Continuous composition-spread thin films of transition metal oxides by pulsed-laser deposition. <i>Applied Surface Science</i> , 2004 , 223, 35-38	6.7	41
32	Germanium-catalyzed growth of zinc oxide nanowires: a semiconductor catalyst for nanowire synthesis. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 274-8	16.4	51
31	Growth of oxide seed layers on Ni and other technologically interesting metal substrates: issues related to formation and control of sulfur superstructures for texture optimization. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 2646-2650	1.8	14
30	An improved continuous compositional-spread technique based on pulsed-laser deposition and applicable to large substrate areas. <i>Review of Scientific Instruments</i> , 2003 , 74, 4058-4062	1.7	46

29	Influence of MgO substrate miscut on domain structure of pulsed laser deposited Sr _x Ba _{1-x} Nb ₂ O ₆ as characterized by x-ray diffraction and spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 2003 , 82, 2990-2992	3.4	18
28	Time-resolved study of SrTiO ₃ homoepitaxial pulsed-laser deposition using surface x-ray diffraction. <i>Applied Physics Letters</i> , 2002 , 80, 3379-3381	3.4	56
27	Characterization of linear diattenuator and retarders using a two-modulator generalized ellipsometer (2-MGE) 2002 ,		1
26	Spectroscopic Ellipsometry Studies of Nanocrystalline Silicon in Thin-Film Silicon Dioxide. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 319		
25	Transmission two-modulator generalized ellipsometry measurements. <i>Applied Optics</i> , 2002 , 41, 6555-661.7	1.7	26
24	Superconducting magnesium diboride films with T _c 4 K grown by pulsed laser deposition with in situ anneal. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 353, 157-161	1.3	64
23	Blue photoluminescence in ZnGa ₂ O ₄ thin-film phosphors. <i>Journal of Applied Physics</i> , 2001 , 89, 1653	2.5	53
22	Epitaxial Growth and Luminescent Properties of Mn ²⁺ -Activated ZnGa ₂ O ₄ Films 2000 , 4, 293-297		6
21	Pulsed KrF laser deposited GaN/TiN/Si(111) heterostructures by sequential TiN and liquid Ga laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S441-S445	2.6	6
20	Silicon and zinc telluride nanoparticles synthesized by low energy density pulsed laser ablation into ambient gases. <i>Journal of Materials Research</i> , 1999 , 14, 359-370	2.5	42
19	ZnGa ₂ O ₄ Thin-Film Phosphors Grown by Pulsed Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 560, 59		
18	Heteroepitaxial growth of n-type CdSe on GaAs(001) by pulsed laser deposition: studies of film-substrate interdiffusion and indium diffusion. <i>Journal of Crystal Growth</i> , 1998 , 193, 516-527	1.6	9
17	Silicon and zinc telluride nanoparticles synthesized by pulsed laser ablation: size distributions and nanoscale structure. <i>Applied Surface Science</i> , 1998 , 127-129, 355-361	6.7	45
16	Growth of p-type ZnTe and n-type CdSe films on GaAs(001) by pulsed laser ablation. <i>Applied Surface Science</i> , 1998 , 127-129, 418-424	6.7	28
15	Study of Substrate Diffusion in Epitaxial N-Type CdSe Films Grown on GaAs (001) by Pulsed Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 526, 27		3
14	Amorphous Diamond Films Deposited by Pulsed-Laser Ablation: The Optimum Carbon-Ion Kinetic Energy and Effects of Laser Wavelength. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 526, 325		18
13	Synthesis of Novel Thin-Film Materials by Pulsed Laser Deposition. <i>Science</i> , 1996 , 273, 898-903	33.3	489
12	Growth of highly doped p-type ZnTe films by pulsed laser ablation in molecular nitrogen. <i>Applied Physics Letters</i> , 1995 , 67, 2545-2547	3.4	35

11	Dislocations in lattice-mismatched wide-gap II-VI/GaAs heterostructures as laser light scatterers: Experiment and theory. <i>Journal of Applied Physics</i> , 1995 , 78, 1203-1209	2.5	14
10	Growth of Highly Doped P-Type ZnTe Films by Pulsed Laser ablation in Molecular Nitrogen. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 388, 85		
9	Pulsed Laser Ablation Growth and Doping of Epitaxial Compound Semiconductor Films. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 397, 107		3
8	p-type ZnSe : N grown by molecular beam epitaxy: evidence of non-radiative recombination centers in moderately to heavily doped material. <i>Journal of Crystal Growth</i> , 1994 , 138, 352-356	1.6	2
7	GaAs substrate cleaning for epitaxy using a remotely generated atomic hydrogen beam. <i>Journal of Applied Physics</i> , 1993 , 73, 4610-4613	2.5	41
6	In situ, real-time diffuse optical reflectivity measurements during GaAs cleaning and subsequent ZnSe/GaAs heteroepitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993 , 11, 1792-1795	2.9	13
5	Design and implementation of a magnetic drive retrofit to the Vacuum Generator venetian style viewport shutter assembly. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993 , 11, 464-465	2.9	2
4	In situ real-time determination of the free-carrier density in doped ZnSe films during molecular beam epitaxial growth. <i>Applied Physics Letters</i> , 1992 , 60, 2723-2725	3.4	9
3	Strain-free, ultra-high purity ZnSe layers grown by molecular beam epitaxy. <i>Journal of Materials Research</i> , 1990 , 5, 475-477	2.5	16
2	p-type ZnSe by nitrogen atom beam doping during molecular beam epitaxial growth. <i>Applied Physics Letters</i> , 1990 , 57, 2127-2129	3.4	558
1	Simulation of the Impact of Point Defects and Edge Dislocations on X-Ray Diffraction in Hexagonal (Ni,Co) 1+2 x Ti 1x O 3 Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2100583	1.3	