

Christopher M Rouleau

List of Publications by Year in descending order

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157
papers

10,445
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31902

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161
all docs

161
docs citations

161
times ranked

15749
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong polarization enhancement in asymmetric three-component ferroelectric superlattices. <i>Nature</i> , 2005, 433, 395-399.	13.7	627
2	p-type ZnSe by nitrogen atom beam doping during molecular beam epitaxial growth. <i>Applied Physics Letters</i> , 1990, 57, 2127-2129.	1.5	622
3	Synthesis of Novel Thin-Film Materials by Pulsed Laser Deposition. <i>Science</i> , 1996, 273, 898-903.	6.0	547
4	PdSe ₂ : Pentagonal Two-Dimensional Layers with High Air Stability for Electronics. <i>Journal of the American Chemical Society</i> , 2017, 139, 14090-14097.	6.6	509
5	Nanoscale effects on the ionic conductivity in highly textured YSZ thin films. <i>Solid State Ionics</i> , 2005, 176, 1319-1326.	1.3	330
6	2D/2D heterojunction of Ti ₃ C ₂ /g-C ₃ N ₄ nanosheets for enhanced photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2019, 11, 8138-8149.	2.8	289
7	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.	3.2	268
8	Interlayer Coupling in Twisted WSe ₂ /WS ₂ Bilayer Heterostructures Revealed by Optical Spectroscopy. <i>ACS Nano</i> , 2016, 10, 6612-6622.	7.3	249
9	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, 9210-9213.	6.6	246
10	Two-dimensional GaSe/MoSe ₂ misfit bilayer heterojunctions by van der Waals epitaxy. <i>Science Advances</i> , 2016, 2, e1501882.	4.7	239
11	Ultrathin nanosheets of CrSiTe ₃ : a semiconducting two-dimensional ferromagnetic material. <i>Journal of Materials Chemistry C</i> , 2016, 4, 315-322.	2.7	235
12	Controlled Vapor Phase Growth of Single Crystalline, Two-Dimensional GaSe Crystals with High Photoresponse. <i>Scientific Reports</i> , 2014, 4, 5497.	1.6	222
13	Patterned arrays of lateral heterojunctions within monolayer two-dimensional semiconductors. <i>Nature Communications</i> , 2015, 6, 7749.	5.8	213
14	Monolayer Ti ₃ C ₂ MX ₂ as an Effective Co-catalyst for Enhanced Photocatalytic Hydrogen Production over TiO ₂ . <i>ACS Applied Energy Materials</i> , 2019, 2, 4640-4651.	2.5	177
15	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.	2.7	176
16	Structure and Formation Mechanism of Black TiO ₂ Nanoparticles. <i>ACS Nano</i> , 2015, 9, 10482-10488.	7.3	170
17	The Role of Ru Redox in pH-Dependent Oxygen Evolution on Rutile Ruthenium Dioxide Surfaces. <i>Chem</i> , 2017, 2, 668-675.	5.8	151
18	Functionally graded hydroxyapatite coatings doped with antibacterial components. <i>Acta Biomaterialia</i> , 2010, 6, 2264-2273.	4.1	143

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19	Low Energy Implantation into Transition-Metal Dichalcogenide Monolayers to Form Janus Structures. ACS Nano, 2020, 14, 3896-3906.	7.3	136
20	Antioxidant Deactivation on Graphenic Nanocarbon Surfaces. Small, 2011, 7, 2775-2785.	5.2	133
21	Thickness-dependent charge transport in few-layer MoS ₂ field-effect transistors. Nanotechnology, 2016, 27, 165203.	1.3	124
22	Tailoring Vacancies Far Beyond Intrinsic Levels Changes the Carrier Type and Optical Response in Monolayer MoSe ₂ Crystals. Nano Letters, 2016, 16, 5213-5220.	4.5	121
23	Carbon Nanotubes Grown on Metal Microelectrodes for the Detection of Dopamine. Analytical Chemistry, 2016, 88, 645-652.	3.2	113
24	PS- <i>b</i> -P3HT Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. Advanced Materials, 2011, 23, 5529-5535.	11.1	110
25	Pulsed Laser Deposition of Photoresponsive Two-Dimensional GaSe Nanosheet Networks. Advanced Functional Materials, 2014, 24, 6365-6371.	7.8	108
26	Excimer laser reduction and patterning of graphite oxide. Carbon, 2013, 53, 81-89.	5.4	107
27	The isotopic effects of deuteration on optoelectronic properties of conducting polymers. Nature Communications, 2014, 5, 3180.	5.8	103
28	Van der Waals Epitaxial Growth of Two-Dimensional Single-Crystalline GaSe Domains on Graphene. ACS Nano, 2015, 9, 8078-8088.	7.3	103
29	Ultrafast Charge Transfer and Hybrid Exciton Formation in 2D/0D Heterostructures. Journal of the American Chemical Society, 2016, 138, 14713-14719.	6.6	102
30	In situ edge engineering in two-dimensional transition metal dichalcogenides. Nature Communications, 2018, 9, 2051.	5.8	100
31	Deciphering Halogen Competition in Organometallic Halide Perovskite Growth. Journal of the American Chemical Society, 2016, 138, 5028-5035.	6.6	92
32	Cooperative Island Growth of Large-Area Single-Crystal Graphene on Copper Using Chemical Vapor Deposition. ACS Nano, 2014, 8, 5657-5669.	7.3	91
33	Isoelectronic Tungsten Doping in Monolayer MoSe ₂ for Carrier Type Modulation. Advanced Materials, 2016, 28, 8240-8247.	11.1	85
34	Suppression of Defects and Deep Levels Using Isoelectronic Tungsten Substitution in Monolayer MoSe ₂ . Advanced Functional Materials, 2017, 27, 1603850.	7.8	84
35	Defect-Mediated Phase Transformation in Anisotropic Two-Dimensional PdSe ₂ Crystals for Seamless Electrical Contacts. Journal of the American Chemical Society, 2019, 141, 8928-8936.	6.6	81
36	Two-Dimensional Palladium Diselenide with Strong In-Plane Optical Anisotropy and High Mobility Grown by Chemical Vapor Deposition. Advanced Materials, 2020, 32, e1906238.	11.1	81

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37	A water-soluble polythiophene for organic field-effect transistors. <i>Polymer Chemistry</i> , 2013, 4, 5270.	1.9	78
38	Surface/Interface-Related Conductivity in Nanometer Thick YSZ Films. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A459.	2.2	76
39	Growth control of oxygen stoichiometry in homoepitaxial SrTiO ₃ films by pulsed laser epitaxy in high vacuum. <i>Scientific Reports</i> , 2016, 6, 19941.	1.6	75
40	Thermal stability of epitaxial SrRuO ₃ films as a function of oxygen pressure. <i>Applied Physics Letters</i> , 2004, 84, 4107-4109.	1.5	71
41	Superconducting magnesium diboride films with T _c ≈ 24 K grown by pulsed laser deposition with in situ anneal. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 353, 157-161.	0.6	69
42	Metal-assisted hydrogen storage on Pt-decorated single-walled carbon nanohorns. <i>Carbon</i> , 2012, 50, 4953-4964.	5.4	69
43	Single walled carbon nanohorns as photothermal cancer agents. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 43-51.	1.1	67
44	Edge-Controlled Growth and Etching of Two-Dimensional GaSe Monolayers. <i>Journal of the American Chemical Society</i> , 2017, 139, 482-491.	6.6	65
45	Blue photoluminescence in ZnGa ₂ O ₄ thin-film phosphors. <i>Journal of Applied Physics</i> , 2001, 89, 1653.	1.1	63
46	Real-time imaging of vertically aligned carbon nanotube array growth kinetics. <i>Nanotechnology</i> , 2008, 19, 055605.	1.3	61
47	UV-activated ZnO films on a flexible substrate for room temperature O ₂ and H ₂ O sensing. <i>Scientific Reports</i> , 2017, 7, 6053.	1.6	61
48	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.	11.1	60
49	Time-resolved study of SrTiO ₃ homoepitaxial pulsed-laser deposition using surface x-ray diffraction. <i>Applied Physics Letters</i> , 2002, 80, 3379-3381.	1.5	59
50	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.	1.5	59
51	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.	4.0	57
52	Germanium-Catalyzed Growth of Zinc Oxide Nanowires: A Semiconductor Catalyst for Nanowire Synthesis. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 274-278.	7.2	56
53	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, 2843-2848.	4.5	56
54	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.	4.0	54

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55	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.	3.1	51
56	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.	0.6	49
57	Continuous composition-spread thin films of transition metal oxides by pulsed-laser deposition. <i>Applied Surface Science</i> , 2004, 223, 35-38.	3.1	49
58	Atomic Layer Engineering of Perovskite Oxides for Chemically Sharp Heterointerfaces. <i>Advanced Materials</i> , 2012, 24, 6423-6428.	11.1	49
59	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.	1.2	48
60	Digital Transfer Growth of Patterned 2D Metal Chalcogenides by Confined Nanoparticle Evaporation. <i>ACS Nano</i> , 2014, 8, 11567-11575.	7.3	47
61	Nonequilibrium Interlayer Transport in Pulsed Laser Deposition. <i>Physical Review Letters</i> , 2006, 96, 226104.	2.9	46
62	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.	5.2	46
63	Strain tolerance of two-dimensional crystal growth on curved surfaces. <i>Science Advances</i> , 2019, 5, eaav4028.	4.7	46
64	Revealing the Preferred Interlayer Orientations and Stackings of Two-Dimensional Bilayer Gallium Selenide Crystals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2712-2717.	7.2	45
65	Observation of two distinct negative trions in tungsten disulfide monolayers. <i>Physical Review B</i> , 2015, 92, .	1.1	44
66	GaAs substrate cleaning for epitaxy using a remotely generated atomic hydrogen beam. <i>Journal of Applied Physics</i> , 1993, 73, 4610-4613.	1.1	42
67	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, .	1.5	42
68	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. <i>ACS Photonics</i> , 2016, 3, 2389-2395.	3.2	42
69	Isotope-Engineering the Thermal Conductivity of Two-Dimensional MoS ₂ . <i>ACS Nano</i> , 2019, 13, 2481-2489.	7.3	42
70	Pulsed Growth of Vertically Aligned Nanotube Arrays with Variable Density. <i>ACS Nano</i> , 2010, 4, 7573-7581.	7.3	41
71	Controllable Growth of Perovskite Films by Room-Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14862-14865.	7.2	41
72	The Influence of Local Distortions on Proton Mobility in Acceptor Doped Perovskites. <i>Chemistry of Materials</i> , 2018, 30, 4919-4925.	3.2	40

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73	Intrinsic Defects in MoS ₂ Grown by Pulsed Laser Deposition: From Monolayers to Bilayers. ACS Nano, 2021, 15, 2858-2868.	7.3	40
74	Growth of highly doped p-type ZnTe films by pulsed laser ablation in molecular nitrogen. Applied Physics Letters, 1995, 67, 2545-2547.	1.5	38
75	Magnetic order multilayering in FeRh thin films by He-Ion irradiation. Materials Research Letters, 2018, 6, 106-112.	4.1	36
76	Cumulative and continuous laser vaporization synthesis of single wall carbon nanotubes and nanohorns. Applied Physics A: Materials Science and Processing, 2008, 93, 849-855.	1.1	34
77	Flux-Dependent Growth Kinetics and Diameter Selectivity in Single-Wall Carbon Nanotube Arrays. ACS Nano, 2011, 5, 8311-8321.	7.3	33
78	Nonequilibrium Synthesis of TiO ₂ Nanoparticle "Building Blocks" for Crystal Growth by Sequential Attachment in Pulsed Laser Deposition. Nano Letters, 2017, 17, 4624-4633.	4.5	33
79	Growth of p-type ZnTe and n-type CdSe films on GaAs(001) by pulsed laser ablation. Applied Surface Science, 1998, 127-129, 418-424.	3.1	32
80	High-throughput growth temperature optimization of ferroelectric SrxBa _{1-x} Nb ₂ O ₆ epitaxial thin films using a temperature gradient method. Applied Physics Letters, 2004, 84, 1350-1352.	1.5	31
81	Transmission two-modulator generalized ellipsometry measurements. Applied Optics, 2002, 41, 6555.	2.1	29
82	Low temperature synthesis of hierarchical TiO ₂ nanostructures for high performance perovskite solar cells by pulsed laser deposition. Physical Chemistry Chemical Physics, 2016, 18, 27067-27072.	1.3	29
83	Normal-incidence generalized ellipsometry using the two-modulator generalized ellipsometry microscope. Applied Optics, 2006, 45, 5479.	2.1	25
84	Pulsed laser CVD investigations of single-wall carbon nanotube growth dynamics. Applied Physics A: Materials Science and Processing, 2008, 93, 987-993.	1.1	25
85	An integrated portable Raman sensor with nanofabricated gold bowtie array substrates for energetics detection. Analyst, The, 2011, 136, 1697.	1.7	25
86	Speciation and Electronic Structure of La _{1-x} Sr _x CoO ₃ During Oxygen Electrolysis. Topics in Catalysis, 2018, 61, 2161-2174.	1.3	25
87	Designing Morphotropic Phase Composition in BiFeO ₃ . Nano Letters, 2019, 19, 1033-1038.	4.5	24
88	Fluorination of "brick and mortar"-soft-templated graphitic ordered mesoporous carbons for high power lithium-ion battery. Journal of Materials Chemistry A, 2013, 1, 9414.	5.2	23
89	Uniform, Homogenous Coatings of Carbon Nanohorns on Arbitrary Substrates from Common Solvents. ACS Applied Materials & Interfaces, 2013, 5, 13153-13160.	4.0	23
90	Bottom up synthesis of boron-doped graphene for stable intermediate temperature fuel cell electrodes. Carbon, 2017, 123, 605-615.	5.4	23

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91	A Facile High-speed Vibration Milling Method to Water-disperse Single-walled Carbon Nanohorns. <i>Chemistry of Materials</i> , 2010, 22, 347-351.	3.2	22
92	Real-time optical diagnostics of graphene growth induced by pulsed chemical vapor deposition. <i>Nanoscale</i> , 2013, 5, 6507.	2.8	22
93	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.	5.4	21
94	Strain-free, ultra-high purity ZnSe layers grown by molecular beam epitaxy. <i>Journal of Materials Research</i> , 1990, 5, 475-477.	1.2	20
95	Influence of MgO substrate miscut on domain structure of pulsed laser deposited $Sr_xBa_{1-x}Nb_2O_6$ as characterized by x-ray diffraction and spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 2003, 82, 2990-2992.	1.5	20
96	A laser-deposition approach to compositional-spread discovery of materials on conventional sample sizes. <i>Measurement Science and Technology</i> , 2005, 16, 21-31.	1.4	20
97	Anomalous Oxidation States in Multilayers for Fuel Cell Applications. <i>Advanced Functional Materials</i> , 2010, 20, 2664-2674.	7.8	20
98	Persistent photoconductivity in two-dimensional $Mo_1W_xSe_2$ van der Waals heterojunctions. <i>Journal of Materials Research</i> , 2016, 31, 923-930.	1.2	20
99	Pulsed electron deposition of fluorine-based precursors for $YBa_2Cu_3O_{7-x}$ -coated conductors. <i>Superconductor Science and Technology</i> , 2005, 18, 1168-1175.	1.8	19
100	Strain-Induced Growth of Twisted Bilayers during the Coalescence of Monolayer MoS_2 Crystals. <i>ACS Nano</i> , 2021, 15, 4504-4517.	7.3	19
101	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.	0.1	18
102	In situ time-resolved measurements of carbon nanotube and nanohorn growth. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3944-3949.	0.7	18
103	Influence of Nonstoichiometry on Proton Conductivity in Thin-Film Yttrium-Doped Barium Zirconate. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4816-4823.	4.0	18
104	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.	5.4	16
105	Dislocations in lattice-mismatched wide-gap $AlGaAs$ heterostructures as laser light scatterers: Experiment and theory. <i>Journal of Applied Physics</i> , 1995, 78, 1203-1209.	1.1	15
106	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.	1.1	15
107	Quantitative determination of energy enhanced interlayer transport in pulsed laser deposition of $SrTiO_3$. <i>Physical Review B</i> , 2011, 84, .	1.1	15
108	Black Anatase Formation by Annealing of Amorphous Nanoparticles and the Role of the Ti_2O_3 Shell in Self-Organized Crystallization by Particle Attachment. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22018-22025.	4.0	15

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109	Determination of optical birefringence by using off-axis transmission ellipsometry. <i>Applied Optics</i> , 2005, 44, 3153.	2.1	14
110	Spatial and temporal measurements of temperature and cell viability in response to nanoparticle-mediated photothermal therapy. <i>Nanomedicine</i> , 2012, 7, 1729-1742.	1.7	14
111	Anorthite sputtering by H ⁺ and Ar ⁺ ($v_{\text{ion}} \approx 1 \times 10^9$) at solar wind velocities. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8006-8016.	0.8	14
112	In situ laser reflectivity to monitor and control the nucleation and growth of atomically thin 2D materials*. <i>2D Materials</i> , 2020, 7, 025048.	2.0	14
113	Selective Antisite Defect Formation in WS ₂ Monolayers via Reactive Growth on Dilute W-Au Alloy Substrates. <i>Advanced Materials</i> , 2022, 34, e2106674.	11.1	14
114	Stabilized Synthesis of 2D Verbeekite: Monoclinic PdSe ₂ Crystals with High Mobility and In-Plane Optical and Electrical Anisotropy. <i>ACS Nano</i> , 2022, 16, 13900-13910.	7.3	14
115	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.	0.9	13
116	Interfaces in perovskite heterostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 807-811.	1.1	12
117	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.	4.0	12
118	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.	0.8	11
119	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.	1.5	10
120	High-temperature transformation of Fe-decorated single-wall carbon nanohorns to nanoysters: a combined experimental and theoretical study. <i>Nanoscale</i> , 2013, 5, 1849-1857.	2.8	10
121	Self-Powered Fast Brazing of Ti-6Al-4V Using Ni/Al Reactive Multilayer Films. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 985.	1.3	10
122	Low-Temperature Charging Dynamics of the Ionic Liquid and Its Gating Effect on FeSe _{0.5} Te _{0.5} Superconducting Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17979-17986.	4.0	10
123	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.	0.7	9
124	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.	0.6	9
125	Incremental Growth of Short SWNT Arrays by Pulsed Chemical Vapor Deposition. <i>Small</i> , 2012, 8, 1534-1542.	5.2	9
126	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.	1.1	8

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127	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, .	1.1	8
128	Layer-by-layer epitaxial thin films of the pyrochlore $\text{Tb}_2\text{Ti}_2\text{O}_7$. <i>Nanotechnology</i> , 2017, 28, 055708.	1.3	8
129	In Quest of a Ferromagnetic Insulator: Structure-Controlled Magnetism in MgTiO Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19970-19978.	1.5	8
130	Epitaxial Growth and Luminescent Properties of Mn^{2+} -Activated ZnGa_2O_4 Films. , 2000, 4, 293-297.		7
131	Room-temperature Insulating Ferromagnetic $(\text{Ni},\text{Co})_{1+2} \times \text{Ti} \times \text{O}_3$ Thin Films. <i>Annalen Der Physik</i> , 2019, 531, 1900299.	0.9	7
132	Understanding Substrate-Guided Assembly in van der Waals Epitaxy by <i>in Situ</i> Laser Crystallization within a Transmission Electron Microscope. <i>ACS Nano</i> , 2021, 15, 8638-8652.	7.3	7
133	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.	1.1	6
134	Slowing of femtosecond laser-generated nanoparticles in a background gas. <i>Applied Physics Letters</i> , 2014, 105, 213108.	1.5	6
135	Substoichiometric Tuning of the Electronic Properties of Titania. <i>Thin Solid Films</i> , 2021, 717, 138437.	0.8	6
136	Revealing the Preferred Interlayer Orientations and Stackings of Two-dimensional Bilayer Gallium Selenide Crystals. <i>Angewandte Chemie</i> , 2015, 127, 2750-2755.	1.6	5
137	Vacancy filled nickel-cobalt-titanate thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600799.	0.7	5
138	Unusual electrical conductivity driven by localized stoichiometry modification at vertical epitaxial interfaces. <i>Materials Horizons</i> , 2020, 7, 3217-3225.	6.4	5
139	Pulsed Laser Ablation Growth and Doping of Epitaxial Compound Semiconductor Films. <i>Materials Research Society Symposia Proceedings</i> , 1995, 397, 107.	0.1	4
140	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.	0.7	3
141	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.	0.1	3
142	The use of low-energy SIMS (LE-SIMS) for nanoscale fuel cell material development. <i>Surface and Interface Analysis</i> , 2011, 43, 635-638.	0.8	3
143	Stabilizing Ir(001) Epitaxy on Ytria-Stabilized Zirconia Using a Thin Ir Seed Layer Grown by Pulsed Laser Deposition. <i>Crystal Growth and Design</i> , 2017, 17, 89-94.	1.4	3
144	Exploring the Spatial Control of Topotactic Phase Transitions Using Vertically Oriented Epitaxial Interfaces. <i>Nano-Micro Letters</i> , 2022, 14, 2.	14.4	3

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145	Design and implementation of a magnetic drive retrofit to the Vacuum Generator's venetian style viewport shutter assembly. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 464-465.	0.9	2
146	Characterization of linear diattenuator and retarders using a two-modulator generalized ellipsometer (2-MGE). , 2002, , .		2
147	Generalized ellipsometry in unusual configurations. <i>Applied Surface Science</i> , 2006, 253, 47-51.	3.1	2
148	Catalytic nanoparticles for carbon nanotube growth synthesized by through thin film femtosecond laser ablation. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
149	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.	0.1	0
150	ZnGa ₂ O ₄ Thin-Film Phosphors Grown by Pulsed Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , 1999, 560, 59.	0.1	0
151	Spectroscopic Ellipsometry Studies of Nanocrystalline Silicon in Thin-Film Silicon Dioxide. <i>Materials Research Society Symposia Proceedings</i> , 2002, 737, 319.	0.1	0
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