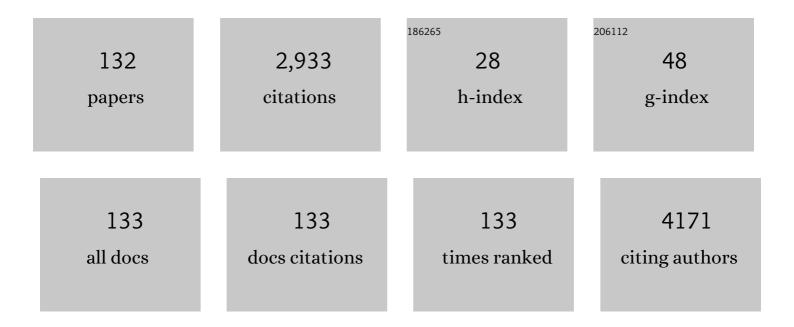
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Organic Electrochemical Transistors in Bioanalytical Chemistry. , 2022, , 305-312. | | 0 |
| 2 | Weak magnetic field-dependent photoluminescence properties of lead bromide perovskites. Journal of Applied Physics, 2022, 131, . | 2.5 | 2 |
| 3 | Functionalized polymer dielectrics for low-operating voltage organic field-effect transistors. Journal of Materials Research, 2022, 37, 1547-1557. | 2.6 | 2 |
| 4 | Temperature-Dependent Phase Stable Hybrid Halide Perovskite Films by Chemical Vapor Deposition. ACS Applied Electronic Materials, 2022, 4, 4258-4264. | 4.3 | 3 |
| 5 | Mixed-halide perovskites solar cells through PbICl and PbCl2 precursor films by sequential chemical vapor deposition. Solar Energy, 2021, 215, 179-188. | 6.1 | 14 |
| 6 | Solution-Processed Organic and ZnO Field-Effect Transistors in Complementary Circuits. Electronic Materials, 2021, 2, 60-71. | 1.9 | 4 |
| 7 | Enhanced Third Harmonic Generation in Lead Bromide Perovskites with Ruddlesden–Popper Planar Faults. Journal of Physical Chemistry Letters, 2021, 12, 4092-4097. | 4.6 | 8 |
| 8 | Probing structure–property relationship in chemical vapor deposited hybrid perovskites by pressure and temperature. Journal of Materials Research, 2021, 36, 1805-1812. | 2.6 | 3 |
| 9 | Inorganic Ruddlesden-Popper Faults in Cesium Lead Bromide Perovskite Nanocrystals for Enhanced Optoelectronic Performance. ACS Applied Materials & Interfaces, 2021, 13, 38579-38585. | 8.0 | 6 |
| 10 | Pressure-Induced Phase Changes in Cesium Lead Bromide Perovskite Nanocrystals with and without Ruddlesden–Popper Faults. Chemistry of Materials, 2020, 32, 785-794. | 6.7 | 25 |
| 11 | Air-Stable Hybrid Perovskite Solar Cell by Sequential Vapor Deposition in a Single Reactor. ACS Applied Energy Materials, 2020, 3, 2350-2359. | 5.1 | 30 |
| 12 | Tuning Charge Transport in PVDF-Based Organic Ferroelectric Transistors: Status and Outlook. ACS Applied Materials & Interfaces, 2020, 12, 26757-26775. | 8.0 | 24 |
| 13 | Coupling of organic cation and inorganic lattice in methylammonium lead halide perovskites: Insights into a pressure-induced isostructural phase transition. Physical Review Materials, 2020, 4, . | 2.4 | 13 |
| 14 | Interfacial Effects of UV-Ozone Treated Sol-Gel Processable ZnO for Hybrid Photodetectors and Thin Film Transistors. MRS Advances, 2019, 4, 1793-1800. | 0.9 | 4 |
| 15 | Revealing interfacial disorder at the growth-front of thick many-layer epitaxial graphene on SiC: a complementary neutron and X-ray scattering investigation. Nanoscale, 2019, 11, 14434-14445. | 5.6 | 5 |
| 16 | Atomic deuteration of epitaxial many-layer graphene on 4H-SiC(0001Â⁻). Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 041804. | 1.2 | 1 |
| 17 | UV–Ozone Modified Sol–Gel Processed ZnO for Improved Diketopyrrolopyrrole-Based Hybrid Photodetectors. ACS Applied Electronic Materials, 2019, 1, 2455-2462. | 4.3 | 16 |
| 18 | Peptide-Based Assemblies on Electrospun Polyamide-6/Chitosan Nanofibers for Detecting Visceral Leishmaniasis Antibodies. ACS Applied Electronic Materials, 2019, 1, 2086-2095. | 4.3 | 20 |

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| 19 | Temperature dependent carrier mobility in organic field-effect transistors: The role of dielectrics. Journal of Applied Physics, 2019, 125, . | 2.5 | 8 |
| 20 | Textured Poling of the Ferroelectric Dielectric Layer for Improved Organic Fieldâ€Effect Transistors. Advanced Materials Interfaces, 2019, 6, 1801787. | 3.7 | 10 |
| 21 | Measuring structural inhomogeneity of a helical conjugated polymer at high pressure and temperature. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 392-396. | 2.1 | 1 |
| 22 | Enhanced piezoresponse and nonlinear optical properties of fluorinated self-assembled peptide nanotubes. AIP Advances, 2019, 9, 115202. | 1.3 | 7 |
| 23 | Functionalized Self-Assembled Peptide Nanotubes with Cobalt Ferrite Nanoparticles for Applications in Organic Electronics. ACS Applied Nano Materials, 2018, 1, 1175-1187. | 5.0 | 25 |
| 24 | High Pressure Structural Studies of Conjugated Molecules. Materials and Energy, 2018, , 175-187. | 0.1 | 0 |
| 25 | Correlating Charge Transport with Structure in Deconstructed Diketopyrrolopyrrole Oligomers: A Case Study of a Monomer in Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 19844-19852. | 8.0 | 9 |
| 26 | Polarization Modulation in Ferroelectric Organic Field-Effect Transistors. Physical Review Applied, 2018, 10, . | 3.8 | 18 |
| 27 | Understanding charge transport in lead iodide perovskite thin-film field-effect transistors. Science Advances, 2017, 3, e1601935. | 10.3 | 354 |
| 28 | Hybrid ZnO-organic semiconductor interfaces in photodetectors: A comparison of two near-infrared donor-acceptor copolymers. Organic Electronics, 2017, 45, 115-123. | 2.6 | 22 |
| 29 | Polarization-Induced Transport: A Comparative Study of Ferroelectric and Non-Ferroelectric Dielectric-Gated Organic Field-Effect Transistors. MRS Advances, 2017, 2, 2951-2956. | 0.9 | 1 |
| 30 | Probing nonlinear optical coefficients in self-assembled peptide nanotubes. Physical Chemistry Chemical Physics, 2017, 19, 3084-3093. | 2.8 | 13 |
| 31 | Plasmonic nano-protrusions: hierarchical nanostructures for single-molecule Raman spectroscopy. Nanotechnology, 2017, 28, 025302. | 2.6 | 9 |
| 32 | SERS active self-assembled diphenylalanine micro/nanostructures: A combined experimental and theoretical investigation. Journal of Chemical Physics, 2017, 147, 084703. | 3.0 | 10 |
| 33 | Cyclometalated Platinum-Containing Diketopyrrolopyrrole Complexes and Polymers: Photophysics and Photovoltaic Applications. Chemistry of Materials, 2017, 29, 8449-8461. | 6.7 | 27 |
| 34 | Polarization-induced transport in organic field-effect transistors: the role of ferroelectric dielectrics. , 2017, , . | | 0 |
| 35 | Blue emitting organic semiconductors under high pressure: status and outlook. Reports on Progress in Physics, 2016, 79, 066601. | 20.1 | 12 |
| 36 | Bandlike Transport in Ferroelectric-Based Organic Field-Effect Transistors. Physical Review Applied, 2016, 6, . | 3.8 | 16 |

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| 37 | Printed dielectric-based organic diodes and transistors. Flexible and Printed Electronics, 2016, 1, 015004. | 2.7 | 11 |
| 38 | Polycaprolactone fibers with self-assembled peptide micro/nanotubes: a practical route towards enhanced mechanical strength and drug delivery applications. Journal of Materials Chemistry B, 2016, 4, 1405-1413. | 5.8 | 33 |
| 39 | Visualisation of charge-transfer excitations in donor–acceptor molecules using the particle–hole map: a case study. Molecular Physics, 2016, 114, 1365-1373. | 1.7 | 6 |
| 40 | Multifunctional biosensors based on peptide–polyelectrolyte conjugates. Physical Chemistry Chemical Physics, 2016, 18, 3223-3233. | 2.8 | 30 |
| 41 | Selfâ€Assembled Peptide–Polyfluorene Nanocomposites for Biodegradable Organic Electronics. Advanced Materials Interfaces, 2015, 2, 1500265. | 3.7 | 35 |
| 42 | Polarization-induced transport in ferroelectric organic field-effect transistors. Journal of Applied Physics, 2015, 117, . | 2.5 | 26 |
| 43 | Organic Electronics: Self-Assembled Peptide-Polyfluorene Nanocomposites for Biodegradable Organic Electronics (Adv. Mater. Interfaces 14/2015). Advanced Materials Interfaces, 2015, 2, n/a-n/a. | 3.7 | 0 |
| 44 | Enhanced performance of ferroelectric-based all organic capacitors and transistors through choice of solvent. Applied Physics Letters, 2014, 104, . | 3.3 | 34 |
| 45 | Persistence of nematic liquid crystalline phase in a polyfluoreneâ€based organic semiconductor: A high pressure study. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1014-1023. | 2.1 | 4 |
| 46 | Bioinspired Peptide Nanostructures for Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2014, 6, 21408-21415. | 8.0 | 35 |
| 47 | Photocurrent spectroscopic studies of diketopyrrolopyrrole-based statistical copolymers. Physical Chemistry Chemical Physics, 2014, 16, 4291. | 2.8 | 7 |
| 48 | Visible-light photocatalytic activity of NH 4 NO 3 ion-exchanged nitrogen-doped titanate and TiO 2 nanotubes. Journal of Molecular Catalysis A, 2014, 394, 48-56. | 4.8 | 21 |
| 49 | Surface-enhanced Raman spectroscopic studies of the Au-pentacene interface: A combined experimental and theoretical investigation. Journal of Chemical Physics, 2013, 139, 044715. | 3.0 | 10 |
| 50 | Enhanced mobility and environmental stability in all organic fieldâ€effect transistors: The role of high dipole moment solvent. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1533-1542. | 2.1 | 14 |
| 51 | Pressure dependence of singlet and triplet excitons in amorphous polymer semiconductors. Europhysics Letters, 2013, 104, 27008. | 2.0 | 7 |
| 52 | Hybrid n-GaN and polymer interfaces: Model systems for tunable photodiodes. Organic Electronics, 2013, 14, 2818-2825. | 2.6 | 9 |
| 53 | Measuring Structural Inhomogeneity of Conjugated Polymer at High Pressures up to 30 GPa. Macromolecules, 2013, 46, 8284-8288. | 4.8 | 12 |
| 54 | Structural study of helical polyfluorene under high quasihydrostatic pressure. Physical Review E, 2013, 87, 022602. | 2.1 | 12 |

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| 55 | Polarization fluctuation dominated electrical transport processes of polymer-based ferroelectric field effect transistors. Physical Review B, 2012, 85, . | 3.2 | 40 |
| 56 | Surface-Enhanced Raman Spectroscopic Studies of Metal–Semiconductor Interfaces in Organic Field-Effect Transistors. Journal of Physical Chemistry C, 2012, 116, 12779-12785. | 3.1 | 17 |
| 57 | Electrical and Optical Properties of Diketopyrrolopyrrole-Based Copolymer Interfaces in Thin Film Devices. ACS Applied Materials & Interfaces, 2011, 3, 1463-1471. | 8.0 | 17 |
| 58 | MAPLE-deposited polymer films for improved organic device performance. Applied Physics A: Materials Science and Processing, 2011, 105, 547-554. | 2.3 | 19 |
| 59 | Tuning structural and optical properties of blueâ€emitting polymeric semiconductors. Physica Status Solidi (B): Basic Research, 2011, 248, 1083-1090. | 1.5 | 17 |
| 60 | Matrix-assisted pulsed-laser evaporated polymer films in all-organic field-effect transistors and metal–insulator–semiconductor diodes. Organic Electronics, 2011, 12, 1580-1587. | 2.6 | 11 |
| 61 | Low-operating voltage and stable organic field-effect transistors with poly (methyl methacrylate) gate dielectric solution deposited from a high dipole moment solvent. Applied Physics Letters, 2011, 99, | 3.3 | 55 |
| 62 | High-pressure optical studies of donor-acceptor polymer heterojunctions. Physical Review B, 2011, 84, . | 3.2 | 4 |
| 63 | Charge transfer complex states in diketopyrrolopyrrole polymers and fullerene blends: Implications for organic solar cell efficiency. Applied Physics Letters, 2011, 99, 233307. | 3.3 | 15 |
| 64 | Synthesis of liquid crystalline benzothiazole based derivatives: A study of their optical and electrical properties. Organic Electronics, 2010, 11, 1-9. | 2.6 | 26 |
| 65 | Diffusion length of triplet excitons in organic semiconductors. Physical Review B, 2010, 82, . | 3.2 | 41 |
| 66 | Evidence for structural transition in hairy-rod poly[9,9-bis(2-ethylhexyl)fluorene] under high pressure conditions. Physical Review E, 2010, 82, 051803. | 2.1 | 5 |
| 67 | Tuning Intermolecular Interactions in Dioctyl-Substituted Polyfluorene via Hydrostatic Pressure. Journal of Physical Chemistry A, 2010, 114, 4680-4688. | 2.5 | 14 |
| 68 | Interface-controlled pulsed-laser deposited polymer films in organic devices. Synthetic Metals, 2010, 160, 2501-2504. | 3.9 | 6 |
| 69 | Role of the triplet state in the green emission peak of polyfluorene films: A time evolution study. Journal of Chemical Physics, 2010, 132, 044104. | 3.0 | 5 |
| 70 | Space-charge-limited conduction in ethyl–hexyl substituted polyfluorene. Journal of Materials Science: Materials in Electronics, 2009, 20, 351-354. | 2.2 | 10 |
| 71 | Optical properties of diâ€octyl substituted polyfluorene under hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2009, 246, 563-569. | 1.5 | 7 |
| 72 | Density functional calculations of the strain effects on binding energies and adatom diffusion on (0001) GaN surfaces. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 158, 13-18. | 3.5 | 12 |

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| 73 | Harvesting triplet excitons for application in polymer solar cells. Applied Physics Letters, 2009, 94, 063307. | 3.3 | 32 |
| 74 | Triplet excitons in a ladder-type conjugated polymer: Application in solar cells. Synthetic Metals, 2009, 159, 2338-2341. | 3.9 | 9 |
| 75 | The role of triplet states in the emission mechanism of polymer light-emitting diodes. Europhysics Letters, 2009, 87, 57008. | 2.0 | 7 |
| 76 | Pulsed laser thin film growth of di-octyl substituted polyfluorene and its co-polymers. Applied Surface Science, 2008, 254, 7069-7073. | 6.1 | 17 |
| 77 | Raman Spectroscopic Studies of Polyfluorenes. The Open Physical Chemistry Journal, 2008, 2, 6-12. | 0.4 | 6 |
| 78 | Probing electronic excitations in organic light-emitting diodes via Raman scattering. Applied Physics Letters, 2007, 90, 252105. | 3.3 | 5 |
| 79 | Crystallization of amorphous silicon by self-propagation of nanoengineered thermites. Journal of Applied Physics, 2007, 101, 054509. | 2.5 | 13 |
| 80 | Polyfluorene as a model system for space-charge-limited conduction. Physical Review B, 2007, 75, . | 3.2 | 61 |
| 81 | Conformations in dioctyl substituted polyfluorene: A combined theoretical and experimental Raman scattering study. Journal of Chemical Physics, 2007, 126, 064905. | 3.0 | 46 |
| 82 | Quantum dots by ultraviolet and x-ray lithography. Nanotechnology, 2007, 18, 315603. | 2.6 | 51 |
| 83 | Interface states in polyfluorene-based metal–insulator–semiconductor devices. Organic Electronics, 2007, 8, 591-600. | 2.6 | 25 |
| 84 | Agarose-stabilized gold nanoparticles for surface-enhanced Raman spectroscopic detection of DNA nucleosides. Applied Physics Letters, 2006, 88, 153114. | 3.3 | 45 |
| 85 | Patterning porous matrices and planar substrates with quantum dots. Journal of Sol-Gel Science and Technology, 2006, 39, 299-306. | 2.4 | 12 |
| 86 | Infra red quantum dot photolithography. Journal of Sol-Gel Science and Technology, 2006, 40, 101-107. | 2.4 | 10 |
| 87 | Chain Morphologies in Blue-Emitting Polyfluorenes: Impact on Light-Emitting Diodes. Materials Research Society Symposia Proceedings, 2006, 916, 1. | 0.1 | 3 |
| 88 | Electrical Characterization of Polyfluorene-Based Metal-Insulator-Semiconductor Diodes. Materials Research Society Symposia Proceedings, 2006, 937, 1. | 0.1 | 3 |
| 89 | Chain Morphologies in Semicrystalline Polyfluorene: Evidence from Raman Scattering. Physical Review Letters, 2006, 96, 025503. | 7.8 | 61 |
| 90 | Capacitance-voltage characterization of polyfluorene-based metal-insulator-semiconductor diodes. Applied Physics Letters, 2006, 89, 013506. | 3.3 | 55 |

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| 91 | Electronic structures and spectral properties of endohedral fullerenes. Coordination Chemistry Reviews, 2005, 249, 1111-1132. | 18.8 | 154 |
| 92 | Raman Scattering from Organic Light Emitting Diodes. AIP Conference Proceedings, 2005, , . | 0.4 | 0 |
| 93 | Development of strain reduced GaN on Si (111) by substrate engineering. Applied Physics Letters, 2005, 87, 082103. | 3.3 | 51 |
| 94 | Laser writing of semiconductor nanoparticles and quantum dots. Applied Physics Letters, 2004, 85, 6007-6009. | 3.3 | 35 |
| 95 | Raman modes in oligophenyls under hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2004, 241, 3339-3344. | 1.5 | 21 |
| 96 | Photophysics of organic emissive semiconductors under hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2004, 241, 3318-3327. | 1.5 | 17 |
| 97 | Structural and Spectroscopic Investigations of Bulk Poly[bis(2-ethyl)hexylfluorene]. Macromolecules, 2004, 37, 9438-9448. | 4.8 | 66 |
| 98 | Effect of temperature and pressure on the optical properties of polyfluorene. Synthetic Metals, 2003, 135-136, 273-274. | 3.9 | 1 |
| 99 | Temperature-dependent optical studies of Ti1â^'xCoxO2. Applied Physics Letters, 2003, 83, 3296-3298. | 3.3 | 17 |
| 100 | Temperature-dependent photoluminescence of organic semiconductors with varying backbone conformation. Physical Review B, 2003, 67, . | 3.2 | 122 |
| 101 | Hydrostatic pressure dependence of the luminescence and Raman frequencies in polyfluorene. Physical Review B, 2003, 68, . | 3.2 | 37 |
| 102 | Optical Properties of Organic Wide Band-Gap Semiconductors under High Pressure. ACS Symposium Series, 2001, , 127-142. | 0.5 | 2 |
| 103 | Optical transitions in para-phenylenes under hydrostatic pressure. Synthetic Metals, 2001, 119, 657-658. | 3.9 | 1 |
| 104 | On the structure of oligophenylenes. Synthetic Metals, 2001, 119, 371-372. | 3.9 | 7 |
| 105 | Comparative optical studies of p-type and unintentionally doped GaN: The influence of annealing. Applied Physics Letters, 2001, 78, 58-60. | 3.3 | 13 |
| 106 | Tuning Intermolecular Interactions:  A Study of the Structural and Vibrational Properties of p-Hexaphenyl under Pressure. Journal of Physical Chemistry A, 2001, 105, 6203-6211. | 2.5 | 43 |
| 107 | Optical Spectroscopic Studies of a Soluble Fluorene-Based Conjugated Polymer: A Hydrostatic Pressure and Temperature Study. Materials Research Society Symposia Proceedings, 2001, 708, 1071. | 0.1 | 0 |
| 108 | Squeezing Organic Conjugated Molecules—What Does One Learn?. Advanced Materials, 2001, 13, 613-618. | 21.0 | 50 |

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| 109 | Geometry-Dependent Electronic Properties of Highly Fluorescent Conjugated Molecules. Physical Review Letters, 2000, 85, 2388-2391. | 7.8 | 35 |
| 110 | High-pressure study of the Raman modes inYBa2(Cu0.96Ni0.04)4O8. Physical Review B, 1999, 60, 4363-4369. | 3.2 | 1 |
| 111 | Planarity ofparaHexaphenyl. Physical Review Letters, 1999, 82, 3625-3628. | 7.8 | 98 |
| 112 | Optical Properties of Poly(Para-Phenylenes) under High Pressure. Physica Status Solidi (B): Basic Research, 1999, 211, 177-188. | 1.5 | 11 |
| 113 | High pressure studies on the planarity of para-hexaphenyl. Synthetic Metals, 1999, 101, 180-181. | 3.9 | 10 |
| 114 | Influence of the molecular geometry on the photoexcitations of highly emissive organic semiconductors. , 1999, , . | | 4 |
| 115 | Photoluminescence of short-period GaAs/AlAs superlattices: A hydrostatic pressure and temperature study. Physical Review B, 1998, 58, 7222-7229. | 3.2 | 28 |
| 116 | Raman Phonons under Hydrostatic Pressure in YBa2(Cu1-xNix)4O8 Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 535-537. | 0.0 | 0 |
| 117 | Isotope effect on the Raman spectrum of the pentagonal-pinch mode inC60. Physical Review B, 1997, 56, 15431-15438. | 3.2 | 13 |
| 118 | Temperature Dependence of the Intervalley Deformation Potential of GaAs/AlAs Superlattices Under Hydrostatic Pressure. Materials Research Society Symposia Proceedings, 1997, 499, 201. | 0.1 | 0 |
| 119 | Structural Properties Of Hexaphenyl Powder Under High Pressure. Materials Research Society Symposia Proceedings, 1997, 488, 867. | 0.1 | 0 |
| 120 | Electronic Properties of Poly(Para-Phenylenes) Under High Pressure. Materials Research Society Symposia Proceedings, 1997, 488, 873. | 0.1 | 0 |
| 121 | Raman cross section for the pentagonal-pinch mode in buckminsterfullerene C60. Chemical Physics Letters, 1997, 270, 129-134. | 2.6 | 17 |
| 122 | Electron–phonon interactions in solid C60 studied by transient picosecond Raman spectroscopy. Applied Physics Letters, 1996, 68, 1051-1053. | 3.3 | 3 |
| 123 | Empirical bond polarizability model for fullerenes. Physical Review B, 1996, 53, 13106-13114. | 3.2 | 114 |
| 124 | Nondestructive analysis of structural defects in wide bandgap II-VI heterostructures. Journal of Electronic Materials, 1996, 25, 235-238. | 2.2 | 2 |
| 125 | Isotopically resolved Raman spectra ofC60. Physical Review Letters, 1994, 72, 3359-3362. | 7.8 | 44 |
| 126 | Extrinsic Nature of the 2.5 eV Raman Resonance in C60. Molecular Crystals and Liquid Crystals, 1994, 256, 391-398. | 0.3 | 3 |

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| 127 | The isotope effect on the Raman spectrum of molecular C60. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 651-659. | 0.6 | 21 |
| 128 | Raman study of photoexcited C60. Solid State Communications, 1993, 87, 981-986. | 1.9 | 12 |
| 129 | An explanation for the directionality of interfacet migration during molecular beam epitaxical growth on patterned substrates. Journal of Applied Physics, 1993, 73, 8662-8664. | 2.5 | 16 |
| 130 | Passivation of GaAs by Electrochemical Sulfur Treatments. Materials Research Society Symposia Proceedings, 1993, 315, 163. | 0.1 | 1 |
| 131 | Raman microprobe study of narrow InxGa1â^xAs stripes on patterned GaAs(100) substrates. Applied Physics Letters, 1991, 58, 1644-1646. | 3.3 | 21 |
| 132 | Defect reduction in strained InxGa1â^'xAs via growth on GaAs (100) substrates patterned to submicron dimensions. Applied Physics Letters, 1990, 56, 2304-2306. | 3.3 | 31 |