# Anthony J Kenyon

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 152 papers | 5,810 citations | 101543 36 h-index | 79698 73 g-index |
| 156 all docs | 156 docs citations | 156 times ranked | 5739 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recent developments in rare-earth doped materials for optoelectronics. Progress in Quantum Electronics, 2002, 26, 225-284. | 7.0 | 777 |
| 2 | Recommended Methods to Study Resistive Switching Devices. Advanced Electronic Materials, 2019, 5, 1800143. | 5.1 | 452 |
| 3 | Erbium in silicon. Semiconductor Science and Technology, 2005, 20, R65-R84. | 2.0 | 238 |
| 4 | Resistive switching in silicon suboxide films. Journal of Applied Physics, 2012, 111, . | 2.5 | 217 |
| 5 | Optical properties of PECVD erbium-doped silicon-rich silica: evidence for energy transfer between silicon microclusters and erbium ions. Journal of Physics Condensed Matter, 1994, 6, L319-L324. | 1.8 | 208 |
| 6 | The origin of photoluminescence from thin films of siliconâ€rich silica. Journal of Applied Physics, 1996, 79, 9291-9300. | 2.5 | 207 |
| 7 | Modeling the contribution of quantum confinement to luminescence from silicon nanoclusters. Journal of Applied Physics, 1998, 83, 3789-3794. | 2.5 | 184 |
| 8 | Luminescence from erbium-doped silicon nanocrystals in silica: Excitation mechanisms. Journal of Applied Physics, 2002, 91, 367. | 2.5 | 162 |
| 9 | Silicon Oxide (SiO<sub>x</sub>): A Promising Material for Resistance Switching?. Advanced Materials, 2018, 30, e1801187. | 21.0 | 156 |
| 10 | Brain-inspired computing needs a master plan. Nature, 2022, 604, 255-260. | 27.8 | 147 |
| 11 | Quantum Conductance in Silicon Oxide Resistive Memory Devices. Scientific Reports, 2013, 3, 2708. | 3.3 | 144 |
| 12 | Memristorsâ€”From Inâ€Memory Computing, Deep Learning Acceleration, and Spiking Neural Networks to the Future of Neuromorphic and Bioâ€Inspired Computing. Advanced Intelligent Systems, 2020, 2, 2000085. | 6.1 | 143 |
| 13 | Evidence of energy coupling between Si nanocrystals and Er3+ in ion-implanted silica thin films. Applied Physics Letters, 1999, 75, 2011-2013. | 3.3 | 135 |
| 14 | Standards for the Characterization of Endurance in Resistive Switching Devices. ACS Nano, 2021, 15, 17214-17231. | 14.6 | 128 |
| 15 | Emulating the Electrical Activity of the Neuron Using a Silicon Oxide RRAM Cell. Frontiers in Neuroscience, 2016, 10, 57. | 2.8 | 106 |
| 16 | Structural changes and conductance thresholds in metal-free intrinsic SiOx resistive random access memory. Journal of Applied Physics, 2015, 117, . | 2.5 | 102 |
| 17 | Electrically tailored resistance switching in silicon oxide. Nanotechnology, 2012, 23, 455201. | 2.6 | 96 |
| 18 | Losses in luminescent solar concentrators unveiled. Solar Energy Materials and Solar Cells, 2016, 144, 40-47. | 6.2 | 82 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Complementary Metalâ€Oxide Semiconductor and Memristive Hardware for Neuromorphic Computing. Advanced Intelligent Systems, 2020, 2, 1900189. | 6.1 | 78 |
| 20 | Towards population inversion of electrically pumped Er ions sensitized by Si nanoclusters. Optics Express, 2010, 18, 2230. | 3.4 | 77 |
| 21 | FTIR and XPS investigation of Er-doped SiO2â€“TiO2 films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 105, 209-213. | 3.5 | 70 |
| 22 | The vapour phase detection of explosive markers and derivatives using two fluorescent metalâ€“organic frameworks. Journal of Materials Chemistry A, 2015, 3, 6351-6359. | 10.3 | 69 |
| 23 | Intrinsic resistance switching in amorphous silicon oxide for high performance SiOx ReRAM devices. Microelectronic Engineering, 2017, 178, 98-103. | 2.4 | 64 |
| 24 | Conductance tomography of conductive filaments in intrinsic silicon-rich silica RRAM. Nanoscale, 2015, 7, 18030-18035. | 5.6 | 62 |
| 25 | On the ability of FÃ¶rster resonance energy transfer to enhance luminescent solar concentrator efficiency. Nano Energy, 2017, 32, 263-270. | 16.0 | 60 |
| 26 | Self-assembly of metallic nanoparticles into one dimensional arrays. Journal of Materials Chemistry A, 2013, 1, 6985. | 10.3 | 54 |
| 27 | Sensing and Discrimination of Explosives at Variable Concentrations with a Large-Pore MOF as Part of a Luminescent Array. ACS Applied Materials & Interfaces, 2019, 11, 11618-11626. | 8.0 | 54 |
| 28 | Nanoscale Transformations in Metastable, Amorphous, Siliconâ€Rich Silica. Advanced Materials, 2016, 28, 7486-7493. | 21.0 | 52 |
| 29 | Simulation of Inference Accuracy Using Realistic RRAM Devices. Frontiers in Neuroscience, 2019, 13, 593. | 2.8 | 52 |
| 30 | Amorphous and nanocrystalline luminescent Si and Ge obtained via a solid-state chemical metathesis synthesis route. Journal of Solid State Chemistry, 2005, 178, 937-949. | 2.9 | 51 |
| 31 | Committee machinesâ€”a universal method to deal with non-idealities in memristor-based neural networks. Nature Communications, 2020, 11, 4273. | 12.8 | 51 |
| 32 | Light-activated resistance switching in SiOx RRAM devices. Applied Physics Letters, 2017, 111, . | 3.3 | 47 |
| 33 | Electrospray synthesis and properties of hierarchically structured PLGA TIPS microspheres for use as controlled release technologies. Journal of Colloid and Interface Science, 2016, 467, 220-229. | 9.4 | 46 |
| 34 | Current transport and electroluminescence mechanisms in thin SiO2 films containing Si nanocluster-sensitized erbium ions. Journal of Applied Physics, 2009, 106, . | 2.5 | 45 |
| 35 | Probing the phonon confinement in ultrasmall silicon nanocrystals reveals a size-dependent surface energy. Journal of Applied Physics, 2011, 109, 083534. | 2.5 | 45 |
| 36 | Intrinsic Resistance Switching in Amorphous Silicon Suboxides: The Role of Columnar Microstructure. Scientific Reports, 2017, 7, 9274. | 3.3 | 41 |

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|---|---|---|---|
| 37 | The interaction of gold and silver nanoparticles with a range of anionic and cationic dyes. Physical Chemistry Chemical Physics, 2014, 16, 6050-6059. | 2.8 | 37 |
| 38 | Modeling of Quantized Conductance Effects in Electrochemical Metallization Cells. IEEE Nanotechnology Magazine, 2015, 14, 505-512. | 2.0 | 33 |
| 39 | Er3+ excited state absorption and the low fraction of nanocluster-excitable Er3+ in SiOx. Applied Physics Letters, 2006, 89, 031116. | 3.3 | 32 |
| 40 | Quantum confinement in rare-earth doped semiconductor systems. Current Opinion in Solid State and Materials Science, 2003, 7, 143-149. | 11.5 | 31 |
| 41 | Homeotropic alignment and FÃ¶rster resonance energy transfer: The way to a brighter luminescent solar concentrator. Journal of Applied Physics, 2014, 116, 173103. | 2.5 | 31 |
| 42 | Liquid surface dynamics: a quantum-resolved scattering study. Chemical Physics Letters, 1992, 190, 55-58. | 2.6 | 28 |
| 43 | Efficiency and loss mechanisms of plasmonic Luminescent Solar Concentrators. Optics Express, 2013, 21, A735. | 3.4 | 28 |
| 44 | Probing electrochemistry at the nanoscale: in situ TEM and STM characterizations of conducting filaments in memristive devices. Journal of Electroceramics, 2017, 39, 73-93. | 2.0 | 28 |
| 45 | Flexible and fluorophore-doped luminescent solar concentrators based on polydimethylsiloxane. Optics Letters, 2016, 41, 713. | 3.3 | 27 |
| 46 | Investigation of dynamical processes at liquid surfaces by molecular scattering. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3877. | 1.7 | 26 |
| 47 | Generalized rate-equation analysis of excitation exchange between silicon nanoclusters and erbium ions. Physical Review B, 2008, 77, . | 3.2 | 26 |
| 48 | Luminescence efficiency measurements of silicon nanoclusters. Applied Physics Letters, 1998, 73, 523-525. | 3.3 | 24 |
| 49 | Spike-Timing Dependent Plasticity in Unipolar Silicon Oxide RRAM Devices. Frontiers in Neuroscience, 2018, 12, 57. | 2.8 | 24 |
| 50 | Investigation of resistance switching in SiO<sub>x</sub>RRAM cells using a 3D multi-scale kinetic Monte Carlo simulator. Journal of Physics Condensed Matter, 2018, 30, 084005. | 1.8 | 23 |
| 51 | The origin of the 0.78 eV luminescence band in dislocated silicon. Journal of Physics Condensed Matter, 2003, 15, S2843-S2850. | 1.8 | 21 |
| 52 | Investigation of quartz grain surface textures by atomic force microscopy for forensic analysis. Forensic Science International, 2012, 223, 245-255. | 2.2 | 21 |
| 53 | Microscopic and spectroscopic analysis of the nature of conductivity changes during resistive switching in siliconâ€rich silicon oxide. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 211-217. | 0.8 | 21 |
| 54 | Multi-channel conduction in redox-based resistive switch modelled using quantum point contact theory. Applied Physics Letters, 2013, 103, . | 3.3 | 19 |

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| 55 | Doping Group IIB Metal Ions into Quantum Dot Shells via the Oneâ€Pot Decomposition of Metalâ€Dithiocarbamates. Advanced Optical Materials, 2015, 3, 704-712. | 7.3 | 19 |
| 56 | On the Limits of Scalpel AFM for the 3D Electrical Characterization of Nanomaterials. Advanced Functional Materials, 2018, 28, 1802266. | 14.9 | 19 |
| 57 | Remote-coupled sensing of plasma harmonics and process end-point detection. Vacuum, 2000, 57, 351-364. | 3.5 | 18 |
| 58 | Dynamics of the gas/liquid interface from laser molecular beam scattering. Faraday Discussions, 1993, 96, 245. | 3.2 | 17 |
| 59 | Nonidealityâ€Aware Training for Accurate and Robust Lowâ€Power Memristive Neural Networks. Advanced Science, 2022, 9, e2105784. | 11.2 | 17 |
| 60 | Fluorescence depolarization as a probe of molecular dynamics within liquid jets. Molecular Physics, 1991, 72, 965-970. | 1.7 | 16 |
| 61 | Indirect excitation of 1.5 Î¼m emission from Er3+ in silicon-rich silica. Applied Physics Letters, 2000, 76, 688-690. | 3.3 | 16 |
| 62 | An analysis of erbium excited state absorption in silicon-rich silica. Journal of Luminescence, 2006, 121, 193-198. | 3.1 | 16 |
| 63 | Selfâ€Assembled Ultraâ€High Aspect Ratio Silver Nanochains. Advanced Materials, 2012, 24, 5227-5235. | 21.0 | 16 |
| 64 | Resistive Switching in Oxides. Springer Series in Surface Sciences, 2015, , 401-428. | 0.3 | 16 |
| 65 | In situ transmission electron microscopy of resistive switching in thin silicon oxide layers. Resolution and Discovery, 2016, 1, 27-33. | 0.4 | 16 |
| 66 | The interplay between structure and function in redox-based resistance switching. Faraday Discussions, 2019, 213, 151-163. | 3.2 | 16 |
| 67 | An oxygen vacancy mediated Ag reduction and nucleation mechanism in SiO2 RRAM devices. Microelectronics Reliability, 2019, 98, 144-152. | 1.7 | 16 |
| 68 | Structural factors impacting carrier transport and electroluminescence from Si nanocluster-sensitized Er ions. Optics Express, 2012, 20, 22490. | 3.4 | 15 |
| 69 | A study of molecular dynamics within liquid flows using fluorescence depolarization. Molecular Physics, 1991, 74, 871-884. | 1.7 | 14 |
| 70 | Probing energy transfer in an ensemble of silicon nanocrystals. Journal of Applied Physics, 2011, 110, 033522. | 2.5 | 14 |
| 71 | Memristor-Based Edge Detection for Spike Encoded Pixels. Frontiers in Neuroscience, 2020, 13, 1386. | 2.8 | 14 |
| 72 | Rf probe technology for the next generation of technological plasmas. Journal Physics D: Applied Physics, 2001, 34, 2726-2733. | 2.8 | 13 |

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| 73 | Modification of the Er3+ radiative lifetime from proximity to silicon nanoclusters in silicon-rich silicon oxide. Optics Express, 2009, 17, 906. | 3.4 | 13 |
| 74 | Silica: Nanoscale Transformations in Metastable, Amorphous, Siliconâ€Rich Silica (Adv. Mater. 34/2016). Advanced Materials, 2016, 28, 7549-7549. | 21.0 | 13 |
| 75 | Nanosecond Analog Programming of Substoichiometric Silicon Oxide Resistive RAM. IEEE Nanotechnology Magazine, 2016, 15, 428-434. | 2.0 | 13 |
| 76 | Memristive, Spintronic, and 2Dâ€Materialsâ€Based Devices to Improve and Complement Computing Hardware. Advanced Intelligent Systems, 2022, 4, . | 6.1 | 13 |
| 77 | Continuous hydrothermal synthesis of surface-functionalised nanophosphors for biological imaging. RSC Advances, 2012, 2, 10037. | 3.6 | 12 |
| 78 | X-ray spectromicroscopy investigation of soft and hard breakdown in RRAM devices. Nanotechnology, 2016, 27, 345705. | 2.6 | 11 |
| 79 | High-Performance Resistance Switching Memory Devices Using Spin-On Silicon Oxide. IEEE Nanotechnology Magazine, 2018, 17, 884-888. | 2.0 | 11 |
| 80 | DC electroluminescence from PECVD grown thin films of silicon-rich silica. Electronics Letters, 1996, 32, 1703. | 1.0 | 10 |
| 81 | Broadband sensitization of 1.53Î¼m Er3+ luminescence in erbium-implanted alumina. Applied Physics Letters, 2004, 85, 5200-5202. | 3.3 | 10 |
| 82 | Excited state absorption in the Si nanocluster-Er material system. IEEE Photonics Technology Letters, 2006, 18, 289-291. | 2.5 | 10 |
| 83 | Donor ionization in size controlled silicon nanocrystals: The transition from defect passivation to free electron generation. Journal of Applied Physics, 2013, 113, 024304. | 2.5 | 10 |
| 84 | Investigation of energy exchange between silicon nanocrystals and Er3+ in silica. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 81, 16-18. | 3.5 | 9 |
| 85 | â€˜It's Not for Lazy Students like Me â€¦'. International Journal of Electrical Engineering and Education, 2005, 42, 41-51. | 0.8 | 9 |
| 86 | Broad-band and flashlamp pumping of 1.53 Î¼m emission from erbium-doped silicon nanocrystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 81, 19-22. | 3.5 | 8 |
| 87 | Increasing the efficiency of erbiumâ€“based sources using silicon quantum dots. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 345-362. | 3.4 | 8 |
| 88 | Introducing scenario based learning: Experiences from an undergraduate electronic and electrical engineering course. , 2010, , . | | 8 |
| 89 | Visible photoluminescence from nanocrystalline Ge grown at room temperature by photo-oxidation of SiGe using a 126 nm lamp. Applied Surface Science, 2003, 208-209, 364-368. | 6.1 | 7 |
| 90 | Modification of erbium photoluminescence decay rate due to ITO layers on thin films of SiO2:Er doped with Si-nanoclusters. Journal of Luminescence, 2013, 136, 407-410. | 3.1 | 7 |

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| 91 | Multiple Diode-Like Conduction in Resistive Switching SiO<italic><sub>x</sub></italic>-Based MIM Devices. IEEE Nanotechnology Magazine, 2015, 14, 15-17. | 2.0 | 7 |
| 92 | Design and Fabrication of Suspended Indium Phosphide Waveguides for MEMS-Actuated Optical Buffering. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 240-246. | 2.9 | 7 |
| 93 | Conductive AFM Topography of Intrinsic Conductivity Variations in Silica Based Dielectrics for Memory Applications. ECS Transactions, 2016, 75, 3-9. | 0.5 | 7 |
| 94 | Simulation of Cycle-to-Cycle Instabilities in SiOx- Based ReRAM Devices Using a Self-Correlated Process with Long-Term Variation. IEEE Electron Device Letters, 2018, , 1-1. | 3.9 | 7 |
| 95 | A noninvasive rf probe for the study of ionization and dissociation processes in technological plasmas. Journal of Applied Physics, 1999, 86, 4100-4106. | 2.5 | 6 |
| 96 | A frequency domain measurement diagnostic technique for plasma-tools. Measurement Science and Technology, 2004, 15, 231-236. | 2.6 | 6 |
| 97 | Rate equation modelling of erbium luminescence dynamics in erbium-doped silicon-rich-silicon-oxide. Journal of Luminescence, 2012, 132, 3103-3112. | 3.1 | 6 |
| 98 | Advanced physical modeling of SiO<inf>x</inf> resistive random access memories. , 2016, , . | | 6 |
| 99 | A nanoscale analysis method to reveal oxygen exchange between environment, oxide, and electrodes in ReRAM devices. APL Materials, 2021, 9, . | 5.1 | 6 |
| 100 | Retention of data in heat-damaged SIM cards and potential recovery methods. Forensic Science International, 2008, 177, 42-46. | 2.2 | 5 |
| 101 | Electrically pumped silicon waveguide light sources. Optics Express, 2011, 19, 24569. | 3.4 | 5 |
| 102 | Size limit on the phosphorous doped silicon nanocrystals for dopant activation. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 456-458. | 1.4 | 5 |
| 103 | Improving the Consistency of Nanoscale Etching for Atomic Force Microscopy Tomography Applications. Frontiers in Materials, 2019, 6, . | 2.4 | 5 |
| 104 | Electrochemical metallization ReRAMs (ECM) - Experiments and modelling: general discussion. Faraday Discussions, 2019, 213, 115-150. | 3.2 | 5 |
| 105 | Substitutional Tin Acceptor States in Black Phosphorus. Journal of Physical Chemistry C, 2021, 125, 22883-22889. | 3.1 | 5 |
| 106 | Process harmonic pulling in RIE plasma-tool. Electronics Letters, 2006, 42, 120. | 1.0 | 4 |
| 107 | Time-resolved measurements of dislocation-related photoluminescence bands in silicon. Semiconductor Science and Technology, 2008, 23, 025010. | 2.0 | 4 |
| 108 | Time-correlated single-photon counting study of multiple photoluminescence lifetime components of silicon nanoclusters. Journal of Luminescence, 2013, 136, 57-62. | 3.1 | 4 |

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| 109 | Controlling and modelling the wetting properties of III-V semiconductor surfaces using re-entrant nanostructures. Scientific Reports, 2018, 8, 3544. | 3.3 | 4 |
| 110 | Thermal effects in scanning acoustic microscopy for fine resolution applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1994, 41, 565-568. | 3.0 | 3 |
| 111 | Rare-Earth Doped Silicon-Rich Silica: Evidence for Energy Transfer between Silicon Microclusters and Rare-Earth Ions. Materials Research Society Symposia Proceedings, 1994, 358, 117. | 0.1 | 3 |
| 112 | The infra-red photoresponse of erbium-doped silicon nanocrystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 105, 230-235. | 3.5 | 3 |
| 113 | Silicon nanocluster-sensitized emission from erbium: The role of stress in the formation of silicon nanoclusters. Journal of Applied Physics, 2008, 104, . | 2.5 | 3 |
| 114 | A Planar CMOS Field-Emission Vacuum Magnetic Sensor. IEEE Transactions on Electron Devices, 2009, 56, 692-695. | 3.0 | 3 |
| 115 | Neuromorphic Dynamics at the Nanoscale in Silicon Suboxide RRAM. Frontiers in Nanotechnology, 2021, 3, . | 4.8 | 3 |
| 116 | Enhancement of Er emission by coupling to silicon nanoclusters: a route to flashlamp-pumped Er amplifiers?. , 2001, , . | | 2 |
| 117 | Flashlamp pumping of erbium-doped silicon nanoclusters. Applied Organometallic Chemistry, 2001, 15, 352-358. | 3.5 | 2 |
| 118 | Harmonic monitoring of the switched silicon etched process. Journal Physics D: Applied Physics, 2003, 36, 2146-2151. | 2.8 | 2 |
| 119 | Sensitisation of erbium luminescence in erbium-implanted alumina. Optical Materials, 2006, 28, 655-659. | 3.6 | 2 |
| 120 | Silicon nanoclusters containing nitrogen and sensitization of erbium luminescence in SiOx:Er. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 175-178. | 3.5 | 2 |
| 121 | Synaptic and neuromorphic functions: general discussion. Faraday Discussions, 2019, 213, 553-578. | 3.2 | 2 |
| 122 | Valence change ReRAMs (VCM) - Experiments and modelling: general discussion. Faraday Discussions, 2019, 213, 259-286. | 3.2 | 2 |
| 123 | The nature of column boundaries in micro-structured silicon oxide nanolayers. APL Materials, 2021, 9, 121107. | 5.1 | 2 |
| 124 | Mitigating Non-idealities of Memristive-based Artificial Neural Networks - an Algorithmic Approach. , 2022, , . | | 2 |
| 125 | Non-Destructive Assessment Of Semiconductor Carrier Lifetime Using Photothermal Radiometry. Materials Research Society Symposia Proceedings, 1996, 428, 455. | 0.1 | 1 |
| 126 | Time-resolved measurements of dislocation-related photoluminescence bands in silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1811-1816. | 0.8 | 1 |

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| 127 | MEMS actuation for a continuously tunable optical buffer. , 2014, , . | | 1 |
| 128 | Design and fabrication of InP free-standing optical waveguides for MEMS. , 2014, , . | | 1 |
| 129 | Resistance Switching in Individual Hydrogen Silsesquioxane (HSQ) Nanopillars. ECS Transactions, 2016, 75, 101-105. | 0.5 | 1 |
| 130 | Theoretical Study of Ag Interactions in Amorphous Silica RRAM Devices. , 2018, , . | | 1 |
| 131 | Engineering Silicon Oxide by Argon Ion Implantation for High Performance Resistance Switching. Frontiers in Materials, 2022, 9, . | 2.4 | 1 |
| 132 | Thermo-acoustic effects on images for high resolution scanning acoustic microscopy. Electronics Letters, 1994, 30, 127-128. | 1.0 | 0 |
| 133 | Silicon Nanoclusters In Silica: A Luminescence Study Of Visible Light Emission From A Siliconbased Material. Materials Research Society Symposia Proceedings, 1996, 424, 483. | 0.1 | 0 |
| 134 | Investigation of Coupling Mechanism between Erbium (Er3+) and Ytterbium (Yb3+) in Alumina (A12O3) Host. Materials Research Society Symposia Proceedings, 1999, 560, 203. | 0.1 | 0 |
| 135 | THE EFFECT OF LEVEL MIXING IN Er-DOPED Si. Materials Research Society Symposia Proceedings, 1999, 560, 251. | 0.1 | 0 |
| 136 | Energy Transfer in Erbium-Doped Silicon Nanoclusters: A Comparison of Silicon-Rich Silica and Silicon Nanopowders. Materials Research Society Symposia Proceedings, 1999, 560, 221. | 0.1 | 0 |
| 137 | Photoluminescence characterization of Er3+ -implanted silica thin films containing Si nanocrystals. , 2000, , . | | 0 |
| 138 | A Silicon-Based Infra-Red Photodetector Exploiting Erbium-Doped Silicon Nanocrystals. Materials Research Society Symposia Proceedings, 2003, 770, 6111. | 0.1 | 0 |
| 139 | The Origin Of The 0.78 eV Luminescence Band In Strained Layer SiGe/Si. Materials Research Society Symposia Proceedings, 2003, 770, 511. | 0.1 | 0 |
| 140 | Rare earth doped photonic materials. Optical Materials, 2006, 28, v. | 3.6 | 0 |
| 141 | Study of the electroluminescence at 1.5 μm of SiO<inf>x</inf> :Er layers made by reactive magnetron sputtering. , 2009, , . | | 0 |
| 142 | (Invited) Novel Processing for Si-Nanocrystal Based Photonic Materials. ECS Transactions, 2010, 28, 3-13. | 0.5 | 0 |
| 143 | Intrinsic Resistive Switching in Bulk SiOx Films. Materials Research Society Symposia Proceedings, 2012, 1430, 1. | 0.1 | 0 |
| 144 | (Invited) On the Origin of the Step-Like Quantum Yield of Si-Nanocrystals: MEG or Efficient Exciton Generation Via Critical Points in C-si. ECS Meeting Abstracts, 2013, , . | 0.0 | 0 |

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|---|---|---|---|
| 145 | (Invited) Resistive Switching in Silicon Oxide Containing Silicon Nanoinclusions. ECS Meeting Abstracts, 2013, , . | 0.0 | 0 |
| 146 | Development of Indium Phosphide MEMS for tunable optical buffering. , 2015, , . | | 0 |
| 147 | Resistance switching in SiO<sub>x</sub>. , 2015, , . | | 0 |
| 148 | Design and fabrication of indium phosphide air-bridge waveguides with MEMS functionality. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 149 | Electrospun fabrication of one-dimensional composite nanofibres using colloidal gold/polymer aqueous blends. , 2015, , . | | 0 |
| 150 | Structural investigation of resistance switching in silicon-rich silica films. , 2015, , . | | 0 |
| 151 | Tunable optical buffer based on III-V MEMS design. , 2015, , . | | 0 |
| 152 | Probing Electrochemistry at the Nanoscale: In Situ TEM and STM Characterizations of Conducting Filaments in Memristive Devices. Kluwer International Series in Electronic Materials: Science and Technology, 2022, , 87-120. | 0.5 | 0 |