

Carl E Bonner

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,528
citations

331259

21
h-index

301761

39
g-index

68
all docs

68
docs citations

68
times ranked

1726
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effect of Random Nanostructured Metallic Environments on Spontaneous Emission of HITC Dye. <i>Nanomaterials</i> , 2020, 10, 2135. | 1.9 | 6 |
| 2 | Enhancement of Electrochromic Polymer Switching in Plasmonic Nanostructured Environment. <i>ACS Applied Nano Materials</i> , 2019, 2, 1713-1719. | 2.4 | 20 |
| 3 | Control of Physical and Chemical Processes with Nonlocal Metal- ϵ -Dielectric Environments. <i>ACS Photonics</i> , 2019, 6, 3039-3056. | 3.2 | 10 |
| 4 | Effect of nonlocal metal- ϵ -dielectric environments on concentration quenching of HITC dye. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 3579. | 0.9 | 11 |
| 5 | Self-Assembly and Charge Transport of a Conjugated Polymer on ITO Substrates. <i>Polymer Science</i> , 2017, 03, . | 0.2 | 2 |
| 6 | Chemical and charge transfer studies on interfaces of a conjugated polymer and ITO. , 2017, , . | | 0 |
| 7 | Effect of metal and dielectric environments on emission kinetics of HITC dye (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 | | |
| 8 | Long-range wetting transparency on top of layered metal-dielectric substrates. <i>Scientific Reports</i> , 2016, 6, 27834. | 1.6 | 13 |
| 9 | Erbium-doped zinc-oxide waveguide amplifiers for hybrid photonic integrated circuits. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 0 |
| 10 | Effective Third-Order Nonlinearities in Refractory Plasmonic TiN Thin Films. , 2016, , . | | 1 |
| 11 | Effective third-order nonlinearities in metallic refractory titanium nitride thin films: publisher's note. <i>Optical Materials Express</i> , 2015, 5, 2587. | 1.6 | 2 |
| 12 | Stimulated Emission of Surface Plasmons on Top of Metamaterials with Hyperbolic Dispersion. <i>ACS Photonics</i> , 2015, 2, 1019-1024. | 3.2 | 32 |
| 13 | Control of Förster energy transfer in the vicinity of metallic surfaces and hyperbolic metamaterials. <i>Faraday Discussions</i> , 2015, 178, 395-412. | 1.6 | 69 |
| 14 | Enhancing Eu^{3+} magnetic dipole emission by resonant plasmonic nanostructures. <i>Optics Letters</i> , 2015, 40, 1659. | 1.7 | 61 |
| 15 | Cyroidal titanium nitride as nonmetallic metamaterial. <i>Optical Materials Express</i> , 2015, 5, 1316. | 1.6 | 25 |
| 16 | Effective third-order nonlinearities in metallic refractory titanium nitride thin films. <i>Optical Materials Express</i> , 2015, 5, 2395. | 1.6 | 50 |
| 17 | Biomaterial Patterning by Microcontact Printing via Deposition of Self Assembled Monolayers (SAMs) on Cobalt Chromium (Co-Cr) Alloy. <i>Journal of Advanced Microscopy Research</i> , 2015, 10, 244-253. | 0.3 | 1 |
| 18 | Between Quantum and Classical: Evolution of Electron Magnetic Resonance with Growth of a Spin System Size. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1636, 1. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | In vitro stability study of organophosphonic self assembled monolayers (SAMs) on cobalt chromium (Coâ€“Cr) alloy. Materials Science and Engineering C, 2013, 33, 2050-2058. | 3.8 | 22 |
| 20 | Nanolayers on Magnesium (Mg) Alloy for Metallic Bone Tissue Engineering Scaffolds. Journal of Biomaterials and Tissue Engineering, 2013, 3, 196-204. | 0.0 | 17 |
| 21 | Ethanol adsorption on the Si (111) surface: First principles study. Journal of Chemical Physics, 2012, 136, 114703. | 1.2 | 5 |
| 22 | In-Vitro Corrosion Inhibition of Magnesium Alloy via Organic Nanocoatings. ECS Transactions, 2011, 33, 97-101. | 0.3 | 1 |
| 23 | Control of spontaneous emission in a volume of functionalized hyperbolic metamaterial. Applied Physics Letters, 2011, 99, . | 1.5 | 144 |
| 24 | Stability of phosphonic self assembled monolayers (SAMs) on cobalt chromium (Coâ€“Cr) alloy under oxidative conditions. Applied Surface Science, 2011, 257, 5605-5612. | 3.1 | 33 |
| 25 | A Fluid Metamaterial With Tunable Anisotropy. , 2011, , . | | 1 |
| 26 | Formation of Nanosized Phosphonic Acid Self Assembled Monolayers on Cobalt-Chromium Alloy for Potential Biomedical Applications. Journal of Biomedical Nanotechnology, 2010, 6, 117-128. | 0.5 | 16 |
| 27 | Surface Modification of Cobalt Chromium Alloy via Phosphonic Acid Organic Nanosized Thin Films. ECS Transactions, 2010, 33, 91-95. | 0.3 | 2 |
| 28 | Controlling spontaneous emission with metamaterials. Optics Letters, 2010, 35, 1863. | 1.7 | 333 |
| 29 | Design, Synthesis, Characterization, and Modeling of a Series of S,S-Dioxothienylenevinylene-Based Conjugated Polymers with Evolving Frontier Orbitals. Macromolecules, 2009, 42, 663-670. | 2.2 | 29 |
| 30 | Influence of doping rate in Er ³⁺ :ZnO films on emission characteristics. Optics Letters, 2008, 33, 815. | 1.7 | 24 |
| 31 | Optical Absorption of Poly(thienylene vinylene)-Conjugated Polymers: Experiment and First Principle Theory. Journal of Physical Chemistry C, 2008, 112, 7908-7912. | 1.5 | 33 |
| 32 | Silver nanowires: synthesis, characterization and optical properties. Materials Research Society Symposia Proceedings, 2008, 1144, 1. | 0.1 | 1 |
| 33 | Ultra-lightweight space power from hybrid thin-film solar cells. IEEE Aerospace and Electronic Systems Magazine, 2008, 23, 31-41. | 2.3 | 10 |
| 34 | Photovoltaic enhancement of organic solar cells by a bridged donor-acceptor block copolymer approach. Applied Physics Letters, 2007, 90, 043117. | 1.5 | 97 |
| 35 | Molecular morphological effects to optoelectronics. , 2007, , . | | 0 |
| 36 | Design, Synthesis, and Characterization of a âˆ“Donorâˆ“Bridgeâˆ“Acceptorâˆ“Bridge- Type Block Copolymer via Alkoxy- and Sulfone- Derivatized Poly(phenylenevinylenes). Macromolecules, 2006, 39, 4317-4326. | 2.2 | 77 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Polymer materials for electro-optic and optoelectronic applications: maximizing device performances by creating desirable intermolecular electrostatic interactions. , 2005, , . | | 0 |
| 38 | Morphological effects to carrier mobility in a RO-PPV/SF-PPV donor/acceptor binary thin film opto-electronic device. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 279-282. | 1.7 | 10 |
| 39 | Role of photoinduced heating in transient photoconductivity in CMR materials. Physica B: Condensed Matter, 2005, 363, 76-81. | 1.3 | 2 |
| 40 | Optimizing Organic Solar Cells in Both Space and Energy Domains. Synthetic Metals, 2005, 154, 65-68. | 2.1 | 7 |
| 41 | Optimizing organic optoelectronic materials in both space and energy/time domains. , 2005, , . | | 0 |
| 42 | Optical and electronic properties of polyphenylvinylene block copolymer films and devices. , 2005, , . | | 0 |
| 43 | Optimization of Organic Solar Cells in Both Space and Energy Time Domains. Optical Science and Engineering, 2005, , . | 0.1 | 0 |
| 44 | Block copolymers for opto-electronics. , 2004, 5280, 253. | | 1 |
| 45 | Ultrafast investigation of electron dynamics in multi-layer metals. International Journal of Heat and Mass Transfer, 2004, 47, 2261-2268. | 2.5 | 26 |
| 46 | Fumaryl chloride and maleic anhydride-derived crosslinked functional polymers for nonlinear optical waveguide applications. Journal of Applied Polymer Science, 2004, 92, 317-322. | 1.3 | 4 |
| 47 | Volume effects on the Raman frequencies of phosphate ions in fluorapatite crystals. Optical Materials, 2004, 26, 17-22. | 1.7 | 11 |
| 48 | Temperature dependence on the cross-relaxation rates in Tm ³⁺ doped strontium fluorapatite. Journal of Luminescence, 2004, 109, 129-133. | 1.5 | 2 |
| 49 | Femtosecond damage threshold of multilayer metal films. , 2003, , . | | 1 |
| 50 | Conjugated Block Copolymers for Opto-Electronic Functions. Synthetic Metals, 2003, 137, 883-884. | 2.1 | 25 |
| 51 | Nonlinear phase mismatch and optimal input combination in atomic four-wave mixing in Bose-Einstein condensates. Physical Review A, 2003, 67, . | 1.0 | 9 |
| 52 | Measurement of the electro-optic coefficient of a range of polymer film concentrations by the two-slit interference technique. , 2003, , . | | 0 |
| 53 | Emission dynamics of donor and acceptor substituted PPV for photovoltaic applications. , 2003, , . | | 0 |
| 54 | Fumaryl Chloride and Maleic Anhydride Derived Crosslinked Functional Polymers and Nano Structures. , 2002, , 17-30. | | 0 |

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|----|--|-----|-----------|
| 55 | A spectroscopic and Juddâ€“Ofelt analysis of the relaxation dynamics of Tm ³⁺ in the fluorapatites, FAP, S-FAP, and B-FAP. Optical Materials, 2002, 20, 1-12. | 1.7 | 11 |
| 56 | Morphology of Organic Thin Films on Silicon Substrate. , 2002, , . | | 0 |
| 57 | Concentration dependence on the linear and non-linear optical properties of Disperse Red 19 doped polymers. , 2002, , . | | 0 |
| 58 | Energy levels and optical properties of neodymium-doped barium fluorapatite. Journal of Applied Physics, 2000, 88, 1935-1942. | 1.1 | 6 |
| 59 | Raman spectroscopic study of barium fluorapatite. Journal of Luminescence, 1999, 81, 101-109. | 1.5 | 11 |
| 60 | Crystal growth, spectroscopic characterization, and laser performance of a new efficient laser material Nd:Ba ₅ (PO ₄) ₃ F. Applied Physics Letters, 1997, 71, 303-305. | 1.5 | 25 |
| 61 | Novel photovoltaic Î“doped GaAs superlattice structure. Applied Physics Letters, 1989, 54, 2247-2249. | 1.5 | 11 |
| 62 | Radiative recombination mechanisms in staggered-alignment (GaAs)/(AlAs) heterostructures. Physical Review B, 1989, 40, 1825-1835. | 1.1 | 45 |
| 63 | Photoluminescence studies of heteroepitaxial gaas on si. Journal of Electronic Materials, 1988, 17, 115-119. | 1.0 | 21 |
| 64 | Recombination mechanisms in type II (GaAs/AlAs) heterostructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1988, 6, 1156. | 1.6 | 30 |
| 65 | Effects of Zn to Te ratio on the molecularâ€“beam epitaxial growth of ZnTe on GaAs. Journal of Applied Physics, 1988, 64, 1191-1195. | 1.1 | 65 |
| 66 | Intrinsic and extrinsic photoluminescence spectra of ZnTe films on GaAs deposited by molecularâ€“beam and organoâ€“metallic vaporâ€“phase epitaxy. Journal of Applied Physics, 1988, 64, 3210-3214. | 1.1 | 47 |
| 67 | Low-Temperature Photoluminescence of MOCVD GaAs Grown Directly on Si. Materials Research Society Symposia Proceedings, 1987, 91, 255. | 0.1 | 10 |
| 68 | Photoluminescence of MBE and MOCVD ZnTe Films on GaAs. Materials Research Society Symposia Proceedings, 1987, 102, 327. | 0.1 | 0 |