

# Werner J Blau

## List of Publications by Citations

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335  
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69  
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149  
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376  
ext. papers

25,830  
ext. citations

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avg, IF

6.59  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 335 | Small but strong: A review of the mechanical properties of carbon nanotube/polymer composites. <i>Carbon</i> , <b>2006</b> , 44, 1624-1652  | 10.4 | 3269      |
| 334 | Silver Nanowire Networks as Flexible, Transparent, Conducting Films: Extremely High DC to Optical Conductivity Ratios. <i>ACS Nano</i> , <b>2009</b> , 3, 1767-74   | 16.7 | 1343      |
| 333 | Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , <b>2015</b> , 6, 8563   | 17.4 | 764       |
| 332 | Ultrafast saturable absorption of two-dimensional MoS <sub>2</sub> nanosheets. <i>ACS Nano</i> , <b>2013</b> , 7, 9260-7  | 16.7 | 754       |
| 331 | Identification of Electron Donor States in N-Doped Carbon Nanotubes. <i>Nano Letters</i> , <b>2001</b> , 1, 457-460   | 11.5 | 659       |
| 330 | Experimental observation of scaling laws for alternating current and direct current conductivity in polymer-carbon nanotube composite thin films. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4024-4030 | 2.5  | 652       |
| 329 | Nonlinear Optical Properties of Porphyrins. <i>Advanced Materials</i> , <b>2007</b> , 19, 2737-2774   | 24   | 644       |
| 328 | Morphological and mechanical properties of carbon-nanotube-reinforced semicrystalline and amorphous polymer composites. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 5123-5125                              | 3.4  | 550       |
| 327 | A Composite from Poly(m-phenylenevinylene-co-2,5-dioctoxy-p-phenylenevinylene) and Carbon Nanotubes: A Novel Material for Molecular Optoelectronics. <i>Advanced Materials</i> , <b>1998</b> , 10, 1091-1093      | 24   | 539       |
| 326 | High Performance Nanotube-Reinforced Plastics: Understanding the Mechanism of Strength Increase. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 791-798   | 15.6 | 538       |
| 325 | Broadband Nonlinear Optical Response of Graphene Dispersions. <i>Advanced Materials</i> , <b>2009</b> , 21, 2430-2435   | 17.4 | 428       |
| 324 | Reinforcement of Polymers with Carbon Nanotubes: The Role of Nanotube Surface Area. <i>Nano Letters</i> , <b>2004</b> , 4, 353-356  | 11.5 | 414       |
| 323 | Debundling of single-walled nanotubes by dilution: observation of large populations of individual nanotubes in amide solvent dispersions. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 15708-18    | 3.4  | 302       |
| 322 | Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , <b>2008</b> , 20, 1876-1881   | 24   | 299       |
| 321 | Molecular Engineering of Peripherally And Axially Modified Phthalocyanines for Optical Limiting and Nonlinear Optics. <i>Advanced Materials</i> , <b>2003</b> , 15, 19-32   | 24   | 290       |
| 320 | Production of Highly Monolayer Enriched Dispersions of Liquid-Exfoliated Nanosheets by Liquid Cascade Centrifugation. <i>ACS Nano</i> , <b>2016</b> , 10, 1589-601  | 16.7 | 271       |
| 319 | Broadband ultrafast nonlinear absorption and nonlinear refraction of layered molybdenum dichalcogenide semiconductors. <i>Nanoscale</i> , <b>2014</b> , 6, 10530-5  | 7.7  | 264       |

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|-----------------|--|------|-----|
| 3 <sup>18</sup> | A comparative study of melt spun polyamide-12 fibres reinforced with carbon nanotubes and nanofibres. <i>Polymer</i> , <b>2004</b> , 45, 2001-2015   | 3.9  | 264 |
| 3 <sup>17</sup> | Transparent, flexible, and highly conductive thin films based on polymer-nanotube composites. <i>ACS Nano</i> , <b>2009</b> , 3, 714-20  | 16.7 | 256 |
| 3 <sup>16</sup> | Graphene oxide covalently functionalized with zinc phthalocyanine for broadband optical limiting. <i>Carbon</i> , <b>2011</b> , 49, 1900-1905  | 10.4 | 231 |
| 3 <sup>15</sup> | Improving the mechanical properties of single-walled carbon nanotube sheets by intercalation of polymeric adhesives. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1682-1684  | 3.4  | 227 |
| 3 <sup>14</sup> | A generic organometallic approach toward ultra-strong carbon nanotube polymer composites. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10226-7   | 16.4 | 210 |
| 3 <sup>13</sup> | Reinforcement of polymers with carbon nanotubes. The role of an ordered polymer interfacial region. Experiment and modeling. <i>Polymer</i> , <b>2006</b> , 47, 8556-8561  | 3.9  | 207 |
| 3 <sup>12</sup> | A Microscopic and Spectroscopic Study of Interactions between Carbon Nanotubes and a Conjugated Polymer. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 2210-2216   | 3.4  | 204 |
| 3 <sup>11</sup> | Enhancement of Modulus, Strength, and Toughness in Poly(methyl methacrylate)-Based Composites by the Incorporation of Poly(methyl methacrylate)-Functionalized Nanotubes. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1608-1614 | 15.6 | 196 |
| 3 <sup>10</sup> | Carbon nanotubes and nanotube composites for nonlinear optical devices. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7425   |      | 182 |
| 3 <sup>09</sup> | Ultrafast Nonlinear Excitation Dynamics of Black Phosphorus Nanosheets from Visible to Mid-Infrared. <i>ACS Nano</i> , <b>2016</b> , 10, 6923-32   | 16.7 | 178 |
| 3 <sup>08</sup> | Electrical and rheological percolation of PMMA/MWCNT nanocomposites as a function of CNT geometry and functionality. <i>European Polymer Journal</i> , <b>2010</b> , 46, 854-868   | 5.2  | 168 |
| 3 <sup>07</sup> | The electrical stimulation of carbon nanotubes to provide a cardiomimetic cue to MSCs. <i>Biomaterials</i> , <b>2012</b> , 33, 6132-9  | 15.6 | 163 |
| 3 <sup>06</sup> | The spatial uniformity and electromechanical stability of transparent, conductive films of single walled nanotubes. <i>Carbon</i> , <b>2009</b> , 47, 2466-2473  | 10.4 | 155 |
| 3 <sup>05</sup> | Phthalocyanines and Phthalocyanine Analogues: The Quest for Applicable Optical Properties. <i>Monatshefte für Chemie</i> , <b>2001</b> , 132, 3-11   | 1.4  | 154 |
| 3 <sup>04</sup> | Inorganic and hybrid nanostructures for optical limiting. <i>Journal of Optics</i> , <b>2009</b> , 11, 024001  |      | 151 |
| 3 <sup>03</sup> | Transport properties of PMMA-Carbon Nanotubes composites. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1215-1216   | 3.6  | 141 |
| 3 <sup>02</sup> | Versatile solution phase triangular silver nanoplates for highly sensitive plasmon resonance sensing. <i>ACS Nano</i> , <b>2010</b> , 4, 55-64   | 16.7 | 129 |
| 3 <sup>01</sup> | Third-order optical non-linearity in Zn(II) complexes of 5,10,15,20-tetraarylethynyl-substituted porphyrins. <i>Chemical Physics Letters</i> , <b>1997</b> , 267, 229-233  | 2.5  | 123 |

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|-----|---|------|-----|
| 300 | Electrophosphorescence from a doped polymer light emitting diode. <i>Synthetic Metals</i> , <b>2001</b> , 116, 379-383.   | 3.6  | 121 |
| 299 | Selective Interaction in a Polymer/Single-Wall Carbon Nanotube Composite. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 478-482   | 3.4  | 120 |
| 298 | Tunable nonlinear refractive index of two-dimensional MoS <sub>2</sub> , WS <sub>2</sub> , and MoSe <sub>2</sub> nanosheet dispersions [Invited]. <i>Photonics Research</i> , <b>2015</b> , 3, A51  | 6    | 117 |
| 297 | Up-cycling of PET (polyethylene terephthalate) to the biodegradable plastic PHA (polyhydroxyalkanoate). <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 7696-701  | 10.3 | 117 |
| 296 | 5,15-A2B2- and 5,15-A2BC-Type Porphyrins with Donor and Acceptor Groups for Use in Nonlinear Optics and Photodynamic Therapy. <i>European Journal of Organic Chemistry</i> , <b>2011</b> , 2011, 5797-5816  | 3.2  | 113 |
| 295 | Fabrication and Characterization of Silver/Polyaniline Composite Nanowires in Porous Anodic Alumina. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4252-4258  | 9.6  | 110 |
| 294 | Ordered DNA wrapping switches on luminescence in single-walled nanotube dispersions. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12734-44  | 16.4 | 107 |
| 293 | Interconnecting carbon nanotubes with an inorganic metal complex. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 13694-5  | 16.4 | 105 |
| 292 | Solubility of MoS <sub>2</sub> nanowires in common solvents: a sedimentation study. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 7124-33   | 3.4  | 102 |
| 291 | Alkynyl substituted phthalocyanine derivatives as targets for optical limiting. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 749-753   |      | 102 |
| 290 | Synthesis and analysis of thin conducting pyrolytic carbon films. <i>Carbon</i> , <b>2012</b> , 50, 1216-1226   | 10.4 | 99  |
| 289 | Enhanced device performance using different carbon nanotube types in polymer photovoltaic devices. <i>Carbon</i> , <b>2008</b> , 46, 2067-2075  | 10.4 | 98  |
| 288 | Enhanced brightness in organic light-emitting diodes using a carbon nanotube composite as an electron-transport layer. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 969-975  | 2.5  | 98  |
| 287 | Solvent Effect on Optical Limiting Properties of Single-Walled Carbon Nanotube Dispersions. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 2298-2303   | 3.8  | 96  |
| 286 | Carbon nanotubes for reinforcement of plastics? A case study with poly(vinyl alcohol). <i>Composites Science and Technology</i> , <b>2007</b> , 67, 1640-1649   | 8.6  | 96  |
| 285 | Carbon nanotube-based functional materials for optical limiting. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 1268-83  | 1.3  | 93  |
| 284 | The photophysics of fac-[Re(CO) <sub>3</sub> (dppz)(py)] <sup>+</sup> in CH <sub>3</sub> CN: a comparative picosecond flash photolysis, transient infrared, transient resonance Raman and density functional theoretical study. <i>Photochemical and Photobiological Sciences</i> , <b>2003</b> , 2, 542-54 | 4.2  | 92  |
| 283 | Material Investigation and Optical Limiting Properties of Carbon Nanotube and Nanoparticle Dispersions. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 958-964   | 3.4  | 92  |

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|-----|---|------|----|
| 282 | Spontaneous Debundling of Single-Walled Carbon Nanotubes in DNA-Based Dispersions. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 66-74  | 3.8  | 89 |
| 281 | High-Yield, Nondestructive Purification and Quantification Method for Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 3087-3091   | 3.4  | 89 |
| 280 | Third-order optical nonlinearity and all-optical switching in porous silicon. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 323-325  | 3.4  | 87 |
| 279 | A survey on the functionalization of single-walled nanotubes. The chemical attachment of phthalocyanine moieties. <i>Nanotechnology</i> , <b>2003</b> , 14, 765-771   | 3.4  | 86 |
| 278 | Graphene and its derivatives for laser protection. <i>Progress in Materials Science</i> , <b>2016</b> , 84, 118-157   | 42.2 | 85 |
| 277 | Observation of Percolation-like Scaling [Far from the Percolation Threshold] in High Volume Fraction, High Conductivity Polymer-Nanotube Composite Films. <i>Advanced Materials</i> , <b>2007</b> , 19, 4443-4447 | 2.4  | 84 |
| 276 | Optimisation of the arc-discharge production of multi-walled carbon nanotubes. <i>Carbon</i> , <b>2002</b> , 40, 923-928  | 2.4  | 84 |
| 275 | Soluble axially substituted phthalocyanines: Synthesis and nonlinear optical response. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 2169   | 4.3  | 82 |
| 274 | Reinforcement of poly(vinyl chloride) and polystyrene using chlorinated polypropylene grafted carbon nanotubes. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 4206                                    |      | 81 |
| 273 | Carbon-nanotube nucleated crystallinity in a conjugated polymer based composite. <i>Chemical Physics Letters</i> , <b>2004</b> , 391, 329-333   | 2.5  | 81 |
| 272 | Preparation and Optical Limiting Properties of Multiwalled Carbon Nanotubes with [Conjugated Metal-Free Phthalocyanine Moieties. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13029-13035          | 3.8  | 78 |
| 271 | Charge transport effects in field emission from carbon nanotube-polymer composites. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 263105   | 3.4  | 77 |
| 270 | Raman spectroscopy and conductivity measurements on polymer-multiwalled carbon nanotubes composites. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 396-400   | 2.5  | 74 |
| 269 | Tunable effective nonlinear refractive index of graphene dispersions during the distortion of spatial self-phase modulation. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 141909                           | 3.4  | 71 |
| 268 | Reinforcement of macroscopic carbon nanotube structures by polymer intercalation: The role of polymer molecular weight and chain conformation. <i>Physical Review B</i> , <b>2005</b> , 72,                       | 3.3  | 70 |
| 267 | New rigid backbone conjugated organic polymers with large fluorescence quantum yields. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 1433  |      | 70 |
| 266 | Large Populations of Individual Nanotubes in Surfactant-Based Dispersions without the Need for Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 972-977                           | 3.8  | 68 |
| 265 | Linear and nonlinear optical characterization of a tetraphenylporphyrin-carbon nanotube composite system. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 23136-41                                    | 3.4  | 68 |

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|-----|---|------|----|
| 264 | Saturable Absorption in 2D Nanomaterials and Related Photonic Devices. <i>Laser and Photonics Reviews</i> , <b>2019</b> , 13, 1800282   | 8.3  | 67 |
| 263 | Nonlinear optical response of multiwalled carbon-nanotube dispersions. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2003</b> , 20, 49   | 1.7  | 63 |
| 262 | Nonlinear absorption properties of some 1,4,8,11,15,18,22,25-octaalkylphthalocyanines and their metallated derivatives. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 1042                                    |      | 63 |
| 261 | Material Investigations and Optical Properties of Phthalocyanine Nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 1287-1295   | 3.4  | 62 |
| 260 | Biomolecules as selective dispersants for carbon nanotubes. <i>Carbon</i> , <b>2005</b> , 43, 1879-1884   | 10.4 | 62 |
| 259 | Photolysis of phosphodiester bonds in plasmid DNA by high intensity UV laser irradiation. <i>Photochemistry and Photobiology</i> , <b>1988</b> , 47, 527-36   | 3.6  | 62 |
| 258 | Synthesis and optical limiting properties of axially bridged phthalocyanines: [(tBu4PcGa)2O] and [(tBu4PcIn)2O]. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 4248-54   | 4.8  | 61 |
| 257 | Microscopy studies of nanotube-conjugated polymer interactions. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1225-1226  | 3.6  | 60 |
| 256 | Binding Kinetics and SWNT Bundle Dissociation in Low Concentration Polymer-Nanotube Dispersions. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 3446-3450  | 3.4  | 59 |
| 255 | Nonlinear optical performance of chemically tailored phthalocyanine-polymer films as solid-state optical limiting devices. <i>Journal of Optics</i> , <b>2008</b> , 10, 075101  |      | 58 |
| 254 | Saturable absorption behavior of free-standing graphene polymer composite films over broad wavelength and time ranges. <i>Optics Express</i> , <b>2015</b> , 23, 559-69   | 3.3  | 56 |
| 253 | Cytotoxicity evaluation of nanoclays in human epithelial cell line A549 using high content screening and real-time impedance analysis. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1                      | 2.3  | 55 |
| 252 | Strong, Tough, Electrospun Polymer-Nanotube Composite Membranes with Extremely Low Density. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2618-2624  | 15.6 | 55 |
| 251 | Investigation of different synthetic routes to and structure-property relationships of poly(m-phenylenevinylene-co-2,5-dioctyloxy-p-phenylenevinylene). <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 485-490 |      | 55 |
| 250 | Observation of site selective binding in a polymer nanotube composite. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 2239-2241  |      | 55 |
| 249 | Molecular Engineering of Nonplanar Porphyrin and Carbon Nanotube Assemblies: A Linear and Nonlinear Spectroscopic and Modeling Study. <i>Journal of Nanotechnology</i> , <b>2011</b> , 2011, 1-12                         | 3.5  | 54 |
| 248 | Photophysical and Optical Limiting Properties of Axially Modified Phthalocyanines. <i>Mini-Reviews in Organic Chemistry</i> , <b>2009</b> , 6, 55-65  | 1.7  | 54 |
| 247 | Nonlinear optical and optical limiting properties of individual single-walled carbon nanotubes. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 91, 521-524   | 1.9  | 54 |

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| 246 | Solubility of Mo6S4.5I4.5 nanowires. <i>Chemical Physics Letters</i> , <b>2005</b> , 401, 13-18   | 2.5  | 53 |
| 245 | Selective Positioning and Density Control of Nanotubes within a Polymer Thin Film. <i>Nano Letters</i> , <b>2003</b> , 3, 1333-1337   | 11.5 | 51 |
| 244 | Magnetic properties of ferromagnetic nanowires embedded in nanoporous alumina membranes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2002</b> , 249, 241-245                        | 2.8  | 50 |
| 243 | Synthesis, Characterization, and Optical-Limiting Properties of Axially Substituted Gallium(III) Naphthalocyanines. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 5163-5168                 | 9.6  | 50 |
| 242 | The Electronic and Non-linear Optical Properties of Oxo-titanium Phthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>1999</b> , 03, 331-338                                  | 1.8  | 50 |
| 241 | Facile fabrication of wafer-scale MoS2 neat films with enhanced third-order nonlinear optical performance. <i>Nanoscale</i> , <b>2015</b> , 7, 2978-86  | 7.7  | 49 |
| 240 | Comparison of carbon nanotubes and nanodisks as percolative fillers in electrically conductive composites. <i>Scripta Materialia</i> , <b>2008</b> , 58, 69-72                                  | 5.6  | 49 |
| 239 | The conversion of BTEX compounds by single and defined mixed cultures to medium-chain-length polyhydroxyalkanoate. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 80, 665-73     | 5.7  | 49 |
| 238 | Multiwalled carbon nanotube nucleated crystallization and reinforcement in poly (vinyl alcohol) composites. <i>Synthetic Metals</i> , <b>2006</b> , 156, 332-335                                | 3.6  | 49 |
| 237 | Materials science. Designer nanotubes by molecular self-assembly. <i>Science</i> , <b>2004</b> , 304, 1457-8  | 33.3 | 49 |
| 236 | Excited-state quenching of a highly luminescent conjugated polymer. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1059-1061  | 3.4  | 49 |
| 235 | The effect of solvent choice on the mechanical properties of carbon nanotube/polymer composites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 3158-3167                         | 8.6  | 48 |
| 234 | Strain induced photoluminescence from silicon and germanium nanowire arrays. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 4809   |      | 48 |
| 233 | Synthesis, characterization and optical limiting properties of a gallium phthalocyanine dimer. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 683                                    |      | 47 |
| 232 | Characterization of an interaction between functionalized carbon nanotubes and an enzyme. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2003</b> , 3, 209-13                            | 1.3  | 47 |
| 231 | MoS /Carbon Nanotube Core-Shell Nanocomposites for Enhanced Nonlinear Optical Performance. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 3321-3327                                  | 4.8  | 46 |
| 230 | Optical Spectroscopy of Isolated and Aggregate Hexabenzocoronene Derivatives: A Study of Self-Assembling Molecular Nanowires. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 37-43 | 3.4  | 46 |
| 229 | Multi-walled carbon nanotubes covalently functionalized with polyhedral oligomeric silsesquioxanes for optical limiting. <i>Carbon</i> , <b>2010</b> , 48, 1738-1742                            | 10.4 | 45 |



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| 228 | A functional conjugated polymer to process, purify and selectively interact with single wall carbon nanotubes. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1217-1218  | 3.6  | 45 |
| 227 | Amplified spontaneous emission and optical gain spectra from stilbenoid and phenylene vinylene derivative model compounds. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 6155-6159   | 2.5  | 45 |
| 226 | On the factors controlling the mechanical properties of nanotube films. <i>Carbon</i> , <b>2008</b> , 46, 41-47  | 10.4 | 44 |
| 225 | A2B2-type push-pull porphyrins as reverse saturable and saturable absorbers. <i>Chemical Communications</i> , <b>2007</b> , 2166-8   | 5.8  | 44 |
| 224 | Exfoliation in ecstasy: liquid crystal formation and concentration-dependent debundling observed for single-wall nanotubes dispersed in the liquid drug $\gamma$ -butyrolactone. <i>Nanotechnology</i> , <b>2007</b> , 18, 455705 <sup>3-4</sup> | 3.4  | 43 |
| 223 | Impure carbon nanotubes as reinforcements for acrylated epoxidized soy oil composites. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 98, 1325-1338   | 2.9  | 42 |
| 222 | Low power nonlinear optical response of C60 and C70 fullerene solutions. <i>Advanced Materials</i> , <b>1993</b> , 5, 930-934  | 24   | 42 |
| 221 | Gas phase controlled deposition of high quality large-area graphene films. <i>Chemical Communications</i> , <b>2010</b> , 46, 1422-4   | 5.8  | 41 |
| 220 | The examination of the Book of Kells using micro-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 1043-1049  | 2.3  | 41 |
| 219 | Observation of van der Waals Driven Self-Assembly of MoSI Nanowires into a Low-Symmetry Structure Using Aberration-Corrected Electron Microscopy. <i>Advanced Materials</i> , <b>2007</b> , 19, 543-547  | 24   | 41 |
| 218 | Strong Optical Limiting of Soluble Axially Substituted Gallium and Indium Phthalocyanines. <i>Advanced Materials</i> , <b>2003</b> , 15, 899-902   | 24   | 40 |
| 217 | Photoinduced charge transfer in poly(p-phenylene vinylene) derivatives and carbon nanotube/C60 composites. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 338, 366-369   | 2.8  | 40 |
| 216 | Control of Optical Limiting of Carbon Nanotube Dispersions by Changing Solvent Parameters. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6148-6156   | 3.8  | 39 |
| 215 | Optical limiting properties of axially substituted indium phthalocyanines in the solid PMMA composite films. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 107, 189-192   | 4.4  | 39 |
| 214 | Linear and nonlinear spectroscopic studies of phthalocyanine-carbon nanotube blends. <i>Chemical Physics Letters</i> , <b>2008</b> , 465, 265-271  | 2.5  | 39 |
| 213 | Reversible bending of carbon nanotubes using a transmission electron microscope. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1961-1963  | 3.4  | 39 |
| 212 | Modeling of nonlinear absorption of 5,10-A2B2 porphyrins in the nanosecond regime. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 15-26   | 2.8  | 38 |
| 211 | Bacterially synthesized tellurium nanostructures for broadband ultrafast nonlinear optical applications. <i>Nature Communications</i> , <b>2019</b> , 10, 3985   | 17.4 | 37 |



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|-----|--|------|----|
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