# Reinhold Wannemacher

List of Publications by Year
in descending order

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|---|---|---|---|
| 84<br>papers | 2,576<br>citations | 186265<br>28<br>h-index | 197818<br>49<br>g-index |
| 84<br>all docs | 84<br>docs citations | 84<br>times ranked | 2936<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Waterâ€Soluble Organic Photocatalyst Discovered for Highly Efficient Additiveâ€Free Visibleâ€Lightâ€Driven Grafting of Polymers from Proteins at Ambient and Aqueous Environments. Advanced Materials, 2022, 34, e2108446. | 21.0 | 22 |
| 2 | Electrical control of FÃ¶rster resonant energy transfer across single-layer graphene. Nanophotonics, 2022, 11, 3247-3256. | 6.0 | 0 |
| 3 | Nuclearity Control for Efficient Thermally Activated Delayed Fluorescence in a Cu<sup>I</sup> Complex and its Halogen-Bridged Dimer. Chemistry of Materials, 2021, 33, 6383-6393. | 6.7 | 12 |
| 4 | On the nature of solvothermally synthesized carbon nanodots. Journal of Materials Chemistry C, 2021, 9, 16935-16944. | 5.5 | 11 |
| 5 | Turn-on solid state luminescence by solvent-induced modification of intermolecular interactions. Journal of Materials Chemistry C, 2020, 8, 15742-15750. | 5.5 | 10 |
| 6 | Divergent Adsorption-Dependent Luminescence of Amino-Functionalized Lanthanide Metalâ€“Organic Frameworks for Highly Sensitive NO<sub>2</sub> Sensors. Journal of Physical Chemistry Letters, 2020, 11, 3362-3368. | 4.6 | 50 |
| 7 | Organic Photocatalyst for ppm-Level Visible-Light-Driven Reversible Additionâ€“Fragmentation Chain-Transfer (RAFT) Polymerization with Excellent Oxygen Tolerance. Macromolecules, 2019, 52, 5538-5545. | 4.8 | 56 |
| 8 | Flexible distributed feedback lasers based on nanoimprinted cellulose diacetate with efficient multiple wavelength lasing. Npj Flexible Electronics, 2019, 3, . | 10.7 | 22 |
| 9 | Assembly-Induced Bright-Light Emission from Solution-Processed Platinum(II) Inorganic Polymers. ACS Omega, 2019, 4, 10192-10204. | 3.5 | 6 |
| 10 | Fluorescent C-NanoDots for rapid detection of BRCA1, CFTR and MRP3 gene mutations. Mikrochimica Acta, 2019, 186, 293. | 5.0 | 8 |
| 11 | Carbon nanodots based biosensors for gene mutation detection. Sensors and Actuators B: Chemical, 2018, 256, 226-233. | 7.8 | 76 |
| 12 | Amplified spontaneous emission in action: Sub-ppm optical detection of acid vapors in poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] thin films. Sensors and Actuators B: Chemical, 2018, 255, 1354-1361. | 7.8 | 11 |
| 13 | Highly efficient organic photocatalysts discovered via a computer-aided-design strategy for visible-light-driven atom transfer radical polymerization. Nature Catalysis, 2018, 1, 794-804. | 34.4 | 124 |
| 14 | Interfacial charge transfer in functionalized multi-walled carbon nanotube@TiO<sub>2</sub> nanofibres. Nanoscale, 2017, 9, 7911-7921. | 5.6 | 71 |
| 15 | Polymorphism and Amplified Spontaneous Emission in a Dicyanoâ€Distyrylbenzene Derivative with Multiple Trifluoromethyl Substituents: Intermolecular Interactions in Play. Advanced Functional Materials, 2016, 26, 2349-2356. | 14.9 | 46 |
| 16 | Flexible all-polymer waveguide for low threshold amplified spontaneous emission. Scientific Reports, 2016, 6, 34565. | 3.3 | 26 |
| 17 | Controlled Suppression of Wear on the Nanoscale by Ultrasonic Vibrations. ACS Nano, 2015, 9, 8859-8868. | 14.6 | 17 |
| 18 | Excited State Features and Dynamics in a Distyrylbenzene-Based Mixed Stack Donorâ€“Acceptor Cocrystal with Luminescent Charge Transfer Characteristics. Journal of Physical Chemistry Letters, 2015, 6, 3682-3687. | 4.6 | 44 |

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|---|---|---|---|
| 19 | The effect of oxygen induced degradation on charge carrier dynamics in P3HT:PCBM and Si-PCPDTBT:PCBM thin films and solar cells. Journal of Materials Chemistry A, 2015, 3, 3399-3408. | 10.3 | 42 |
| 20 | Orthogonal Resonator Modes and Low Lasing Threshold in Highly Emissive Distyrylbenzeneâ€Based Molecular Crystals. Advanced Optical Materials, 2014, 2, 542-548. | 7.3 | 32 |
| 21 | Velocity dependence of nano-abrasive wear of amorphous polymers obtained using a spiral scan pattern. Polymer, 2013, 54, 3620-3623. | 3.8 | 1 |
| 22 | Colorâ€Tuned, Highly Emissive Dicyanodistyrylbenzene Single Crystals: Manipulating Intermolecular Stacking Interactions for Spontaneous and Stimulated Emission Characteristics. Advanced Optical Materials, 2013, 1, 232-237. | 7.3 | 86 |
| 23 | Stimulated Emission Properties of Sterically Modified Distyrylbenzene-Based H-Aggregate Single Crystals. Journal of Physical Chemistry Letters, 2013, 4, 1597-1602. | 4.6 | 71 |
| 24 | Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. Physical Chemistry Chemical Physics, 2013, 15, 9384. | 2.8 | 15 |
| 25 | Stimulated Resonance Raman Scattering and Laser Oscillation in Highly Emissive Distyrylbenzeneâ€Based Molecular Crystals. Advanced Materials, 2012, 24, 6473-6478. | 21.0 | 62 |
| 26 | Spectroscopic Signature of Trap States in Assembled CdSe Nanocrystal Hybrid Films. Journal of Physical Chemistry C, 2012, 116, 16259-16263. | 3.1 | 9 |
| 27 | Ultra-High Resolution Thin Film Thickness Delineation Using Reflection Phase-Sensitive Acoustic Microscopy. Acoustical Imaging, 2011, , 125-134. | 0.2 | 2 |
| 28 | Modeling of Coulomb coupling and acoustic wave propagation in LiNbO3. Ultrasonics, 2008, 48, 583-586. | 3.9 | 1 |
| 29 | A differential method for the determination of the time-of-flight for ultrasound under pulsed wide band excitation including chirped signals. Proceedings of SPIE, 2008, , . | 0.8 | 7 |
| 30 | Comparative evaluation of ultrasonic lenses and electric point contacts for acoustic flux imaging in piezoelectric single crystals. , 2008, , . | | 0 |
| 31 | Determination of mechanical properties of layered materials with vector-contrast scanning acoustic microscopy by polar diagram image representation. Proceedings of SPIE, 2008, , . | 0.8 | 3 |
| 32 | The influence of the radius of the electrodes employed in Coulomb excitation of acoustic waves in piezoelectric materials. , 2007, , . | | 6 |
| 33 | Combinatory scanning confocal laser and acoustic vector contrast microscopy: multi-contrast imaging of soft matter samples. , 2006, , . | | 0 |
| 34 | Characterization of malaria infected blood cells by scanning confocal laser and acoustic vector contrast microscopy. , 2006, , . | | 0 |
| 35 | Application of spatially and temporally apodized non-confocal acoustic transmission microscopy to imaging of directly bonded wafers. Ultrasonics, 2006, 44, 54-63. | 3.9 | 6 |
| 36 | Combined surface-focused acoustic microscopy in transmission and scanning ultrasonic holography. Ultrasonics, 2006, 44, e1301-e1305. | 3.9 | 7 |

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|---|---|---|---|
| 37 | Combined phase-sensitive acoustic microscopy and confocal laser scanning microscopy. Ultrasonics, 2006, 44, e1295-e1300. | 3.9 | 6 |
| 38 | Acoustic holography of piezoelectric materials by Coulomb excitation. , 2006, , . | | 7 |
| 39 | <title>NDT of wafer direct bonding by non-confocal transmission phase sensitive acoustic microscopy</title>. , 2005, 5768, 204. | | 1 |
| 40 | Photonic molecules doped with semiconductor nanocrystals. Physical Review B, 2004, 70, . | 3.2 | 58 |
| 41 | Phase-sensitive acoustic microscopy of polymer thin films. Ultrasonics, 2004, 42, 983-987. | 3.9 | 2 |
| 42 | Voronoi Tessellations in Thin Polymer Blend Films. Macromolecules, 2004, 37, 1691-1692. | 4.8 | 10 |
| 43 | Photonic molecules doped with quantum dots. , 2004, , . | | 0 |
| 44 | Dot-in-a-dot: electronic and photonic confinement in all three dimensions. Applied Physics B: Lasers and Optics, 2003, 77, 469-484. | 2.2 | 42 |
| 45 | Apertureless near-field optical microscopy of metallic nanoparticles. Ultramicroscopy, 2003, 94, 109-123. | 1.9 | 12 |
| 46 | Mode control by nanoengineering light emitters in spherical microcavities. Applied Physics Letters, 2003, 83, 2686-2688. | 3.3 | 35 |
| 47 | Phase-sensitive acoustic imaging and micro-metrology of polymer blend thin films. Europhysics Letters, 2003, 64, 830-836. | 2.0 | 8 |
| 48 | Mode identification in spherical microcavities doped with quantum dots. Applied Physics Letters, 2002, 80, 3253-3255. | 3.3 | 28 |
| 49 | Optical near-field effects in surface nanostructuring and laser cleaning. , 2002, , . | | 27 |
| 50 | Propagation of femtosecond light pulses through near-field optical aperture probes. Ultramicroscopy, 2002, 92, 251-264. | 1.9 | 16 |
| 51 | Laser microstructuring and scanning microscopy of plasmapolymerâ€“silver composite layers. Applied Optics, 2001, 40, 5726. | 2.1 | 6 |
| 52 | Light Trapped in a Photonic Dot:â€‰ Microspheres Act as a Cavity for Quantum Dot Emission. Nano Letters, 2001, 1, 309-314. | 9.1 | 164 |
| 53 | Microscopy of ion-beam generated fluorescent color-center patterns in LiF. Optics Communications, 2001, 188, 119-128. | 2.1 | 28 |
| 54 | Failure of local Mie theory: optical spectra of colloidal aggregates. Optics Communications, 2001, 194, 277-287. | 2.1 | 64 |

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| 55 | Plasmon-supported transmission of light through nanometric holes in metallic thin films. Optics Communications, 2001, 195, 107-118. | 2.1 | 112 |
| 56 | Photons confined in hollow microspheres. Applied Physics Letters, 2001, 78, 1032-1034. | 3.3 | 56 |
| 57 | Preparation of Silverâ˜Latex Composites. Journal of Physical Chemistry B, 2000, 104, 7278-7285. | 2.6 | 174 |
| 58 | Generation and detection of fluorescent color centers in diamond with submicron resolution. Applied Physics Letters, 1999, 75, 3096-3098. | 3.3 | 75 |
| 59 | Evanescent-wave scattering in near-field optical microscopy. Journal of Microscopy, 1999, 194, 260-264. | 1.8 | 18 |
| 60 | Confocal microscopy of color center distributions in diamond. Journal of Luminescence, 1999, 83-84, 493-497. | 3.1 | 11 |
| 61 | Scattering and extinction of evanescent waves by small particles. Applied Physics B: Lasers and Optics, 1999, 68, 87-92. | 2.2 | 84 |
| 62 | Resonant absorption and scattering in evanescent fields. Applied Physics B: Lasers and Optics, 1999, 68, 225-232. | 2.2 | 36 |
| 63 | Near-field Raman spectroscopy of semiconductor heterostructures and CVD-diamond layers. Journal of Luminescence, 1998, 76-77, 306-309. | 3.1 | 15 |
| 64 | Permanent and microsecond transient hole-burning in free-base tetraphenylporphin using a quantum-well diode laser. Journal of Luminescence, 1997, 72-74, 544-545. | 3.1 | 1 |
| 65 | Spectral Diffusion in Organic Glasses:Â Time Dependence of Spectral Holes. The Journal of Physical Chemistry, 1996, 100, 19945-19953. | 2.9 | 28 |
| 66 | Nuclear magnetic resonance ofCo2+inLiGa5O8detected by optical spectral hole burning. Physical Review B, 1995, 51, 8764-8769. | 3.2 | 1 |
| 67 | Dynamics of spectral holes in rare-earth-doped glass fibers. Journal of Luminescence, 1994, 60-61, 437-440. | 3.1 | 11 |
| 68 | Spectral diffusion in organic glasses. Temperature dependence of permanent and transient holes. Chemical Physics Letters, 1993, 206, 1-8. | 2.6 | 38 |
| 69 | Blue continuously pumped upconversion lasing in Tm:YLiF4. Applied Physics Letters, 1992, 60, 2592-2594. | 3.3 | 122 |
| 70 | Optical dephasing of paramagnetic ions: Er3+ : YLiF4 â€" experiments and computer simulations. Journal of Luminescence, 1992, 53, 1-6. | 3.1 | 15 |
| 71 | Transient hole-burning with a diode laser: a study of bacteriochlorophyll-a in a glass on a microsecond time scale. Journal of Luminescence, 1992, 53, 266-270. | 3.1 | 15 |
| 72 | Nuclear spin-flip sidebands in optical spectral holeburning and fluorescence line narrowing of the Er3+ ion. Journal of Luminescence, 1991, 48-49, 309-312. | 3.1 | 15 |

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| 73 | Nonexponential photon echo decay of Er3+ in fluorides. Journal of Luminescence, 1991, 48-49, 313-317. | 3.1 | 18 |
| 74 | Direct observation of migration of optical excitation energy in YAG: Tb3+. Journal of Luminescence, 1990, 47, 169-175. | 3.1 | 9 |
| 75 | Zeeman-switched optical free induction decay in YLiF4:Er3+. Journal of Luminescence, 1990, 45, 431-433. | 3.1 | 6 |
| 76 | Electronically resonant optical cross relaxation in YAG: Tb3+. Journal of Luminescence, 1990, 47, 159-167. | 3.1 | 30 |
| 77 | Time-resolved spectral holeburning in LaF3:Ho3+ and YLiF4:Er3+. Journal of Luminescence, 1990, 45, 307-309. | 3.1 | 14 |
| 78 | Blue and green cw upconversion lasing in Er:YLiF4. Applied Physics Letters, 1990, 57, 1727-1729. | 3.3 | 155 |
| 79 | Zeeman-switched optical-free-induction decay and dephasing inYLiF4:Er3+. Physical Review B, 1989, 40, 4237-4242. | 3.2 | 10 |
| 80 | High-resolution spectroscopy of the 4T2 state of Cr3+ in LiCaAlF6. Journal of Luminescence, 1989, 43, 251-260. | 3.1 | 17 |
| 81 | Electronic antiâ€Stokes Raman scattering at Cr3+ single ions and ion pairs in optically excited states. Journal of Chemical Physics, 1988, 88, 4660-4663. | 3.0 | 1 |
| 82 | Cooperative emission of photons by weakly coupled chromium ions in YAG and LaAlO3. Journal of Luminescence, 1987, 39, 49-56. | 3.1 | 7 |
| 83 | Cooperative emission of photons by weakly coupled chromium ions in Al2O3. European Physical Journal B, 1987, 65, 491-501. | 1.5 | 6 |
| 84 | Photons confined in 3D-microcavities doped with quantum dots. , 0, , . | | 0 |