

# Reinhold Wannemacher

## List of Publications by Year in descending order

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84  
papers

2,576  
citations

186265  
28  
h-index

197818  
49  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2936  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Silver <sup>+</sup> Latex Composites. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7278-7285.	2.6	174
2	Light Trapped in a Photonic Dot: Microspheres Act as a Cavity for Quantum Dot Emission. <i>Nano Letters</i> , 2001, 1, 309-314.	9.1	164
3	Blue and green cw upconversion lasing in Er:YLiF <sub>4</sub> . <i>Applied Physics Letters</i> , 1990, 57, 1727-1729.	3.3	155
4	Highly efficient organic photocatalysts discovered via a computer-aided-design strategy for visible-light-driven atom transfer radical polymerization. <i>Nature Catalysis</i> , 2018, 1, 794-804.	34.4	124
5	Blue continuously pumped upconversion lasing in Tm:YLiF <sub>4</sub> . <i>Applied Physics Letters</i> , 1992, 60, 2592-2594.	3.3	122
6	Plasmon-supported transmission of light through nanometric holes in metallic thin films. <i>Optics Communications</i> , 2001, 195, 107-118.	2.1	112
7	Color-Tuned, Highly Emissive Dicyanodistyrylbenzene Single Crystals: Manipulating Intermolecular Stacking Interactions for Spontaneous and Stimulated Emission Characteristics. <i>Advanced Optical Materials</i> , 2013, 1, 232-237.	7.3	86
8	Scattering and extinction of evanescent waves by small particles. <i>Applied Physics B: Lasers and Optics</i> , 1999, 68, 87-92.	2.2	84
9	Carbon nanodots based biosensors for gene mutation detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 226-233.	7.8	76
10	Generation and detection of fluorescent color centers in diamond with submicron resolution. <i>Applied Physics Letters</i> , 1999, 75, 3096-3098.	3.3	75
11	Stimulated Emission Properties of Sterically Modified Distyrylbenzene-Based H-Aggregate Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1597-1602.	4.6	71
12	Interfacial charge transfer in functionalized multi-walled carbon nanotube@TiO <sub>2</sub> nanofibres. <i>Nanoscale</i> , 2017, 9, 7911-7921.	5.6	71
13	Failure of local Mie theory: optical spectra of colloidal aggregates. <i>Optics Communications</i> , 2001, 194, 277-287.	2.1	64
14	Stimulated Resonance Raman Scattering and Laser Oscillation in Highly Emissive Distyrylbenzene-Based Molecular Crystals. <i>Advanced Materials</i> , 2012, 24, 6473-6478.	21.0	62
15	Photonic molecules doped with semiconductor nanocrystals. <i>Physical Review B</i> , 2004, 70, .	3.2	58
16	Photons confined in hollow microspheres. <i>Applied Physics Letters</i> , 2001, 78, 1032-1034.	3.3	56
17	Organic Photocatalyst for ppm-Level Visible-Light-Driven Reversible Addition-Fragmentation Chain-Transfer (RAFT) Polymerization with Excellent Oxygen Tolerance. <i>Macromolecules</i> , 2019, 52, 5538-5545.	4.8	56
18	Divergent Adsorption-Dependent Luminescence of Amino-Functionalized Lanthanide Metal-Organic Frameworks for Highly Sensitive NO <sub>2</sub> Sensors. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3362-3368.	4.6	50

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19	Polymorphism and Amplified Spontaneous Emission in a Dicyano-Distyrylbenzene Derivative with Multiple Trifluoromethyl Substituents: Intermolecular Interactions in Play. <i>Advanced Functional Materials</i> , 2016, 26, 2349-2356.	14.9	46
20	Excited State Features and Dynamics in a Distyrylbenzene-Based Mixed Stack Donor-Acceptor Cocrystal with Luminescent Charge Transfer Characteristics. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3682-3687.	4.6	44
21	Dot-in-a-dot: electronic and photonic confinement in all three dimensions. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 469-484.	2.2	42
22	The effect of oxygen induced degradation on charge carrier dynamics in P3HT:PCBM and Si-PCPDTBT:PCBM thin films and solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3399-3408.	10.3	42
23	Spectral diffusion in organic glasses. Temperature dependence of permanent and transient holes. <i>Chemical Physics Letters</i> , 1993, 206, 1-8.	2.6	38
24	Resonant absorption and scattering in evanescent fields. <i>Applied Physics B: Lasers and Optics</i> , 1999, 68, 225-232.	2.2	36
25	Mode control by nanoengineering light emitters in spherical microcavities. <i>Applied Physics Letters</i> , 2003, 83, 2686-2688.	3.3	35
26	Orthogonal Resonator Modes and Low Lasing Threshold in Highly Emissive Distyrylbenzene-Based Molecular Crystals. <i>Advanced Optical Materials</i> , 2014, 2, 542-548.	7.3	32
27	Electronically resonant optical cross relaxation in YAG: Tb <sup>3+</sup> . <i>Journal of Luminescence</i> , 1990, 47, 159-167.	3.1	30
28	Spectral Diffusion in Organic Glasses: Time Dependence of Spectral Holes. <i>The Journal of Physical Chemistry</i> , 1996, 100, 19945-19953.	2.9	28
29	Microscopy of ion-beam generated fluorescent color-center patterns in LiF. <i>Optics Communications</i> , 2001, 188, 119-128.	2.1	28
30	Mode identification in spherical microcavities doped with quantum dots. <i>Applied Physics Letters</i> , 2002, 80, 3253-3255.	3.3	28
31	Optical near-field effects in surface nanostructuring and laser cleaning. , 2002, , .		27
32	Flexible all-polymer waveguide for low threshold amplified spontaneous emission. <i>Scientific Reports</i> , 2016, 6, 34565.	3.3	26
33	Flexible distributed feedback lasers based on nanoimprinted cellulose diacetate with efficient multiple wavelength lasing. <i>Npj Flexible Electronics</i> , 2019, 3, .	10.7	22
34	A Water-Soluble Organic Photocatalyst Discovered for Highly Efficient Additive-Free Visible-Light-Driven Grafting of Polymers from Proteins at Ambient and Aqueous Environments. <i>Advanced Materials</i> , 2022, 34, e2108446.	21.0	22
35	Nonexponential photon echo decay of Er <sup>3+</sup> in fluorides. <i>Journal of Luminescence</i> , 1991, 48-49, 313-317.	3.1	18
36	Evanescent-wave scattering in near-field optical microscopy. <i>Journal of Microscopy</i> , 1999, 194, 260-264.	1.8	18

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37	High-resolution spectroscopy of the 4T <sub>2</sub> state of Cr <sup>3+</sup> in LiCaAlF <sub>6</sub> . Journal of Luminescence, 1989, 43, 251-260.	3.1	17
38	Controlled Suppression of Wear on the Nanoscale by Ultrasonic Vibrations. ACS Nano, 2015, 9, 8859-8868.	14.6	17
39	Propagation of femtosecond light pulses through near-field optical aperture probes. Ultramicroscopy, 2002, 92, 251-264.	1.9	16
40	Nuclear spin-flip sidebands in optical spectral holeburning and fluorescence line narrowing of the Er <sup>3+</sup> ion. Journal of Luminescence, 1991, 48-49, 309-312.	3.1	15
41	Optical dephasing of paramagnetic ions: Er <sup>3+</sup> : YLiF <sub>4</sub> experiments and computer simulations. Journal of Luminescence, 1992, 53, 1-6.	3.1	15
42	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
43	Near-field Raman spectroscopy of semiconductor heterostructures and CVD-diamond layers. Journal of Luminescence, 1998, 76-77, 306-309.	3.1	15
44	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. Physical Chemistry Chemical Physics, 2013, 15, 9384.	2.8	15
45	Time-resolved spectral holeburning in LaF <sub>3</sub> :Ho <sup>3+</sup> and YLiF <sub>4</sub> :Er <sup>3+</sup> . Journal of Luminescence, 1990, 45, 307-309.	3.1	14
46	Apertureless near-field optical microscopy of metallic nanoparticles. Ultramicroscopy, 2003, 94, 109-123.	1.9	12
47	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
48	Dynamics of spectral holes in rare-earth-doped glass fibers. Journal of Luminescence, 1994, 60-61, 437-440.	3.1	11
49	Confocal microscopy of color center distributions in diamond. Journal of Luminescence, 1999, 83-84, 493-497.	3.1	11
50	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
51	On the nature of solvothermally synthesized carbon nanodots. Journal of Materials Chemistry C, 2021, 9, 16935-16944.	5.5	11
52	Zeeman-switched optical-free-induction decay and dephasing in YLiF <sub>4</sub> :Er <sup>3+</sup> . Physical Review B, 1989, 40, 4237-4242.	3.2	10
53	Voronoi Tessellations in Thin Polymer Blend Films. Macromolecules, 2004, 37, 1691-1692.	4.8	10
54	Turn-on solid state luminescence by solvent-induced modification of intermolecular interactions. Journal of Materials Chemistry C, 2020, 8, 15742-15750.	5.5	10

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55	Direct observation of migration of optical excitation energy in YAG: Tb <sup>3+</sup> . Journal of Luminescence, 1990, 47, 169-175.	3.1	9
56	Spectroscopic Signature of Trap States in Assembled CdSe Nanocrystal Hybrid Films. Journal of Physical Chemistry C, 2012, 116, 16259-16263.	3.1	9
57	Phase-sensitive acoustic imaging and micro-metrology of polymer blend thin films. Europhysics Letters, 2003, 64, 830-836.	2.0	8
58	Fluorescent C-NanoDots for rapid detection of BRCA1, CFTR and MRP3 gene mutations. Mikrochimica Acta, 2019, 186, 293.	5.0	8
59	Cooperative emission of photons by weakly coupled chromium ions in YAG and LaAlO <sub>3</sub> . Journal of Luminescence, 1987, 39, 49-56.	3.1	7
60	Combined surface-focused acoustic microscopy in transmission and scanning ultrasonic holography. Ultrasonics, 2006, 44, e1301-e1305.	3.9	7
61	Acoustic holography of piezoelectric materials by Coulomb excitation. , 2006, , .		7
62	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
63	Cooperative emission of photons by weakly coupled chromium ions in Al <sub>2</sub> O <sub>3</sub> . European Physical Journal B, 1987, 65, 491-501.	1.5	6
64	Zeeman-switched optical free induction decay in YLiF <sub>4</sub> :Er <sup>3+</sup> . Journal of Luminescence, 1990, 45, 431-433.	3.1	6
65	Laser microstructuring and scanning microscopy of plasmapolymerâ€“silver composite layers. Applied Optics, 2001, 40, 5726.	2.1	6
66	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
67	Combined phase-sensitive acoustic microscopy and confocal laser scanning microscopy. Ultrasonics, 2006, 44, e1295-e1300.	3.9	6
68	The influence of the radius of the electrodes employed in Coulomb excitation of acoustic waves in piezoelectric materials. , 2007, , .		6
69	Assembly-Induced Bright-Light Emission from Solution-Processed Platinum(II) Inorganic Polymers. ACS Omega, 2019, 4, 10192-10204.	3.5	6
70	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
71	Phase-sensitive acoustic microscopy of polymer thin films. Ultrasonics, 2004, 42, 983-987.	3.9	2
72	Ultra-High Resolution Thin Film Thickness Delineation Using Reflection Phase-Sensitive Acoustic Microscopy. Acoustical Imaging, 2011, , 125-134.	0.2	2

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73	Electronic anti-Stokes Raman scattering at Cr <sup>3+</sup> single ions and ion pairs in optically excited states. Journal of Chemical Physics, 1988, 88, 4660-4663.	3.0	1
74	Nuclear magnetic resonance of Co <sup>2+</sup> in LiGa <sub>5</sub> O <sub>8</sub> detected by optical spectral hole burning. Physical Review B, 1995, 51, 8764-8769.	3.2	1
75	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
76	<title>NDT of wafer direct bonding by non-confocal transmission phase sensitive acoustic microscopy</title>. , 2005, 5768, 204.		1
77	Modeling of Coulomb coupling and acoustic wave propagation in LiNbO <sub>3</sub> . Ultrasonics, 2008, 48, 583-586.	3.9	1
78	Velocity dependence of nano-abrasive wear of amorphous polymers obtained using a spiral scan pattern. Polymer, 2013, 54, 3620-3623.	3.8	1
79	Photons confined in 3D-microcavities doped with quantum dots. , 0, , .		0
80	Combinatory scanning confocal laser and acoustic vector contrast microscopy: multi-contrast imaging of soft matter samples. , 2006, , .		0
81	Characterization of malaria infected blood cells by scanning confocal laser and acoustic vector contrast microscopy. , 2006, , .		0
82	Comparative evaluation of ultrasonic lenses and electric point contacts for acoustic flux imaging in piezoelectric single crystals. , 2008, , .		0
83	Photonic molecules doped with quantum dots. , 2004, , .		0
84	Electrical control of Förster resonant energy transfer across single-layer graphene. Nanophotonics, 2022, 11, 3247-3256.	6.0	0