Uwe Pischel

List of Publications by Year
in descending order

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124 papers	6,547 citations	76196 40 h-index	66788 78 g-index
143 all docs	143 docs citations	143 times ranked	5881 citing authors

#	Article	IF	Citations
1	Fluorescent Dyes and Their Supramolecular Host/Guest Complexes with Macrocycles in Aqueous Solution. Chemical Reviews, 2011, 111, 7941-7980.	23.0	975
2	Chemical Approaches to Molecular Logic Elements for Addition and Subtraction. Angewandte Chemie - International Edition, 2007, 46, 4026-4040.	7.2	429
3	Smart molecules at workâ€”mimicking advanced logic operations. Chemical Society Reviews, 2010, 39, 174-188.	18.7	399
4	Molecules with a sense of logic: a progress report. Chemical Society Reviews, 2015, 44, 1053-1069.	18.7	358
5	All-Photonic Multifunctional Molecular Logic Device. Journal of the American Chemical Society, 2011, 133, 11641-11648.	6.6	290
6	Data and signal processing using photochromic molecules. Chemical Communications, 2012, 48, 1947-1957.	2.2	175
7	Molecules for security measures: from keypad locks to advanced communication protocols. Chemical Society Reviews, 2018, 47, 2266-2279.	18.7	134
8	Information Processing with Moleculesâ€”Quo Vadis?. ChemPhysChem, 2013, 14, 28-46.	1.0	114
9	Supramolecular logic with macrocyclic input and competitive reset. Chemical Communications, 2010, 46, 2635.	2.2	98
10	An All-Photonic Molecule-Based D Flip-Flop. Journal of the American Chemical Society, 2011, 133, 20742-20745.	6.6	89
11	Molecular logic devices (half-subtractor, comparator, complementary output circuit) by controlling photoinduced charge transfer processes. New Journal of Chemistry, 2008, 32, 395-400.	1.4	88
12	An All-Photonic Molecule-Based Parity Generator/Checker for Error Detection in Data Transmission. Journal of the American Chemical Society, 2013, 135, 10230-10233.	6.6	88
13	Multivalued Logic with a Tristable Fluorescent Switch. Journal of Physical Chemistry C, 2009, 113, 5805-5811.	1.5	87
14	Energy Transfer Mechanisms in Organicâ^'Inorganic Hybrids Incorporating Europium(III):â€‰ A Quantitative Assessment by Light Emission Spectroscopy. Journal of Physical Chemistry C, 2007, 111, 17627-17634.	1.5	84
15	Advanced Molecular Logic with Memory Function. Angewandte Chemie - International Edition, 2010, 49, 1356-1358.	7.2	83
16	A photoinduced pH jump applied to drug release from cucurbit[7]uril. Chemical Communications, 2011, 47, 8793.	2.2	82
17	Spiroiminodihydantoin Is a Major Product in the Photooxidation of 2â€˜-Deoxyguanosine by the Triplet States and Oxyl Radicals Generated from Hydroxyacetophenone Photolysis and Dioxetane Thermolysis. Organic Letters, 2002, 4, 537-540.	2.4	79
18	Fluorescence Quenching of n,Ï€*-Excited Azoalkanes by Amines:Â What Is a Sterically Hindered Amine?. Journal of the American Chemical Society, 2000, 122, 2027-2034.	6.6	76

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19	Switch-Over in Photochemical Reaction Mechanism from Hydrogen Abstraction to Exciplex-Induced Quenching:Â Interaction of Triplet-Excited versus Singlet-Excited Acetone versus Cumyloxyl Radicals with Amines. Journal of the American Chemical Society, 2001, 123, 9727-9737.	6.6	73
20	OFF-ON-OFF Fluorescence Switch with T-Latch Function. Organic Letters, 2011, 13, 5572-5575.	2.4	72
21	Azabora[5]helicene Chargeâ€Transfer Dyes Show Efficient and Spectrally Variable Circularly Polarized Luminescence. Chemistry - A European Journal, 2018, 24, 12660-12668.	1.7	71
22	A molecular tool kit for the variable design of logic operations (NOR, INH, EnNOR). Chemical Communications, 2006, , 2051.	2.2	70
23	Energy Transfer and Emission Quantum Yields of Organicâ"Inorganic Hybrids Lacking Metal Activator Centers. Journal of Physical Chemistry C, 2007, 111, 3275-3284.	1.5	70
24	Digital Operations with Molecules - Advances, Challenges, and Perspectives. Australian Journal of Chemistry, 2010, 63, 148.	0.5	68
25	Molecular Implementation of Sequential and Reversible Logic Through Photochromic Energy Transfer Switching. Chemistry - A European Journal, 2011, 17, 6492-6500.	1.7	67
26	Selective Sensing of Citrate by a Supramolecular 1,8-Naphthalimide/Calix[4]arene Assembly via Complexation-Modulated pKaShifts in a Ternary Complex. Journal of Organic Chemistry, 2007, 72, 3889-3895.	1.7	65
27	Reversible Molecular Logic: A Photophysical Example of a Feynman Gate. ChemPhysChem, 2009, 10, 2004-2007.	1.0	65
28	A supramolecular keypad lock. Chemical Communications, 2015, 51, 2698-2701.	2.2	62
29	Optical Supramolecular Sensing of Creatinine. Journal of the American Chemical Society, 2020, 142, 4276-4284.	6.6	61
30	Calix[4]azacrowns as Novel Molecular Scaffolds for the Generation of Visible and Near-Infrared Lanthanide Luminescence. Inorganic Chemistry, 2006, 45, 2652-2660.	1.9	60
31	An inhibit (INH) molecular logic gate based on 1,8-naphthalimide-sensitised europium luminescence. Photochemical and Photobiological Sciences, 2004, 3, 639.	1.6	57
32	Drug Delivery by Controlling a Supramolecular Hostâ€"Guest Assembly with a Reversible Photoswitch. Chemistry - A European Journal, 2016, 22, 15208-15211.	1.7	57
33	A Threeâ€Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes). Chemistry - A European Journal, 2016, 22, 1631-1637.	1.7	56
34	Strongly Emissive and Photostable Fourâ€Coordinate Organoboron N,C Chelates and Their Use in Fluorescence Microscopy. Chemistry - A European Journal, 2015, 21, 15369-15376.	1.7	54
35	Proton-Induced Fluorescence Switching in Novel Naphthalimideâ"Dansylamide Dyads. Journal of Organic Chemistry, 2005, 70, 10565-10568.	1.7	51
36	Selective Fluorescence Quenching of 2,3-Diazabicyclo[2.2.2]oct-2-ene by Nucleotides. Organic Letters, 2003, 5, 3911-3914.	2.4	46

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37	A simplicity-guided approach toward molecular setâ€“reset memories. New Journal of Chemistry, 2010, 34, 2701.	1.4	45
38	Urea-Containing Mesoporous Silica for the Adsorption of Fe(III) Cations. Chemistry of Materials, 2006, 18, 5597-5603.	3.2	43
39	Light-stimulated molecular and supramolecular systems for information processing and beyond. Coordination Chemistry Reviews, 2021, 429, 213695.	9.5	42
40	Zirconium organophosphonates as photoactive and hydrophobic host materials for sensitized luminescence of Eu(iii), Tb(iii), Sm(iii) and Dy(iii). New Journal of Chemistry, 2004, 28, 1506-1513.	1.4	41
41	Modular Functional Integration of a Two-Input INH Logic Gate with a Fluorophoreâ^'Spacerâ^'Receptor₁â^'Spacerâ^'Receptor₂Conjugate. Journal of Organic Chemistry, 2008, 73, 6079-6085.	1.7	40
42	Organic Fluorescent Thermometers Based on Borylated Arylisoquinoline Dyes. Chemistry - A European Journal, 2014, 20, 7638-7645.	1.7	40
43	Conical Intersections in Charge-Transfer Induced Quenching. Angewandte Chemie - International Edition, 2000, 39, 4582-4586.	7.2	39
44	A Simple Assay for Quality Binders to Cucurbiturils. Chemistry - A European Journal, 2014, 20, 9897-9901.	1.7	39
45	Triplet Reactivity and Regio-/Stereoselectivity in the Macrocyclization of Diastereomeric Ketoprofenâ^'Quencher ConjugatesviaRemote Hydrogen Abstractions. Journal of the American Chemical Society, 2007, 129, 7407-7420.	6.6	36
46	Red-Emitting Tetracoordinate Organoboron Chelates: Synthesis, Photophysical Properties, and Fluorescence Microscopy. Journal of Organic Chemistry, 2016, 81, 9605-9611.	1.7	35
47	Photochemistry ofN-Isopropoxy-Substituted 2(1H)-Pyridone and 4-p-Tolylthiazole-2(3H)-thione:Â Alkoxyl-Radical Release (Spin-Trapping, EPR, and Transient Spectroscopy) and Its Significance in the Photooxidative Induction of DNA Strand Breaks. Journal of Organic Chemistry, 2002, 67, 6041-6049.	1.7	34
48	Photoinduced processes in naproxen-based chiral dyads. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2007, 8, 128-142.	5.6	33
49	Cucurbiturils as supramolecular inhibitors of DNA restriction by type II endonucleases. Organic and Biomolecular Chemistry, 2015, 13, 2866-2869.	1.5	32
50	Reaction of Singlet-Excited 2,3-Diazabicyclo[2.2.2]oct-2-ene andtert-Butoxyl Radicals with Aryl-Substituted Benzofuranones. Journal of Organic Chemistry, 2006, 71, 1977-1983.	1.7	31
51	Kinetic Solvent Effects on Hydrogen Abstraction Reactions. Organic Letters, 2007, 9, 2899-2902.	2.4	31
52	Photocaged Competitor Guests: A General Approach Toward Lightâ€Activated Cargo Release From Cucurbiturils. Chemistry - A European Journal, 2017, 23, 13105-13111.	1.7	31
53	Chemical Communication between Molecules. ChemPhysChem, 2017, 18, 1667-1677.	1.0	30
54	Binding of Flavylium Ions to Sulfonatocalix[4]arene and Implication in the Photorelease of Biologically Relevant Guests in Water. Journal of Organic Chemistry, 2019, 84, 10852-10859.	1.7	30

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55	A Comparative Photomechanistic Study (Spin Trapping, EPR Spectroscopy, Transient Kinetics,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 the Radicals Generated from Î±-Oxy-Substituted Derivatives through Norrish-Type I Cleavage. Journal of the American Chemical Society, 2002, 124, 3893-3904.	6.6	29
56	Diastereomeric Differentiation in the Quenching of Excited States by Hydrogen Donors. Angewandte Chemie - International Edition, 2003, 42, 2531-2534.	7.2	29
57	Light-induced cargo release from a cucurbit[8]uril host by means of a sequential logic operation. Chemical Communications, 2018, 54, 13335-13338.	2.2	29
58	Stereoselective fluorescence quenching by photoinduced electron transfer in naphthalene-amine dyads. Chemical Communications, 2003, , 1088-1089.	2.2	28
59	Storage and Processing of Information Using Molecules: The Allâ€Photonic Approach with Simple and Multiâ€Photochromic Switches. Israel Journal of Chemistry, 2013, 53, 236-246.	1.0	28
60	Electronic and Functional Scope of Boronic Acid Derived Salicylidenehydrazone (BASHY) Complexes as Fluorescent Dyes. Journal of Organic Chemistry, 2017, 82, 7151-7158.	1.7	28
61	Preparation and pH-Switching of Fluorescent Borylated Arylisoquinolines for Multilevel Molecular Logic. Journal of Organic Chemistry, 2013, 78, 7949-7961.	1.7	26
62	Energy Transfer in Aminonaphthalimideâ€Boronâ€Dipyrromethene (BODIPY) Dyads upon Oneâ€•and Twoâ€Photon Excitation: Applications for Cellular Imaging. Chemistry - an Asian Journal, 2014, 9, 797-804.	1.7	26
63	Phototriggered release of amine from a cucurbituril macrocycle. Chemical Communications, 2016, 52, 6245-6248.	2.2	26
64	Photophysical Study of Bis(naphthalimide)â^'Amine Conjugates: Toward Molecular Design of Excimer Emission Switching. Journal of Physical Chemistry A, 2011, 115, 1092-1099.	1.1	25
65	Circularly Polarized Luminescence of Boronic Acid-Derived Salicylidenehydrazone Complexes Containing Chiral Boron as Stereogenic Unit. Journal of Organic Chemistry, 2018, 83, 14057-14062.	1.7	24
66	Structureâ€“reactivity relationships in the photoreduction of n,Ï€*-excited ketones and azoalkanes: the effect of reaction thermodynamics, excited-state electrophilicity, and antibonding character in the transition state. Photochemical and Photobiological Sciences, 2002, 1, 141-147.	1.6	23
67	Switching Properties of a Spiropyranâ€“Cucurbit[7]uril Supramolecular Assembly: Usefulness of the Anchor Approach. ChemPhysChem, 2012, 13, 3691-3699.	1.0	23
68	Site-selective installation of BASHY fluorescent dyes to Annexin V for targeted detection of apoptotic cells. Chemical Communications, 2017, 53, 368-371.	2.2	23
69	Light-driven control of the composition of a supramolecular network. Chemical Communications, 2019, 55, 4335-4338.	2.2	22
70	Toward UV-Triggered Curing of Solvent-Free Polyurethane Adhesives Based on Castor Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 11032-11040.	3.2	22
71	Investigation of Polar and Stereoelectronic Effects on Pure Excited-state Hydrogen Atom Abstractions from Phenols and Alkylbenzenesâ€. Photochemistry and Photobiology, 2006, 82, 310.	1.3	21
72	Synthetic versus Natural Receptors: Supramolecular Control of Chemical Sensing in Fish. ACS Chemical Biology, 2014, 9, 1432-1436.	1.6	21

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73	â€œInvertedâ€•Solvent Effect on Charge Transfer in the Excited State. Angewandte Chemie - International Edition, 1999, 38, 2885-2888.	7.2	20
74	Quenching of n,Ï€*-Excited States in the Gas Phase:â€‰ Variations in Absolute Reactivity and Selectivity. Journal of the American Chemical Society, 2002, 124, 11349-11357.	6.6	20
75	Wavelength-Dependent Stereodifferentiation in the Fluorescence Quenching of Asymmetric Naphthalene-Based Dyads by Amines. Journal of Physical Chemistry A, 2005, 109, 2711-2717.	1.1	18
76	Intramolecular electron transfer in diastereomeric naphthaleneâ€“amine dyads: a fluorescence and laser flash photolysis study. Photochemical and Photobiological Sciences, 2005, 4, 69-74.	1.6	17
77	Borylated Arylisoquinolines: Photophysical Properties and Switching Behavior of Promising Tunable Fluorophores. Chemistry - A European Journal, 2013, 19, 6650-6661.	1.7	17
78	Cationic porphyrins with inverted pyridinium groups and their fluorescence properties. Tetrahedron Letters, 2014, 55, 4156-4159.	0.7	17
79	Precise supramolecular control of surface coverage densities on polymer micro- and nanoparticles. Chemical Science, 2018, 9, 8575-8581.	3.7	17
80	Temperature dependence of bianthryl dual fluorescence. Chemical Physics Letters, 2002, 357, 440-449.	1.2	16
81	An acido- and photochromic molecular device that mimics triode action. Chemical Communications, 2016, 52, 4659-4662.	2.2	16
82	Unconventional Fluorescence Quenching in Naphthalimide-Capped CdSe/ZnS Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 7365-7375.	1.5	15
83	Quenching of n,?*-excited azoalkanes by amines: structural and electronic effects on charge transfer. Journal of Physical Organic Chemistry, 2000, 13, 640-647.	0.9	14
84	Toward Two-Photon Absorbing Dyes with Unusually Potentiated Nonlinear Fluorescence Response. Journal of the American Chemical Society, 2020, 142, 14854-14858.	6.6	14
85	Chemical signal cascading in a supramolecular network. Chemical Communications, 2020, 56, 3737-3740.	2.2	14
86	Supramolecular control of phthalocyanine dye aggregation. Supramolecular Chemistry, 2014, 26, 642-647.	1.5	13
87	Bis(dioxaborine) Dyes with Variable Ï€â€Bridges: Towards Twoâ€Photon Absorbing Fluorophores with Very High Brightness. Chemistry - A European Journal, 2018, 24, 2929-2935.	1.7	13
88	Excitedâ€State Pathways of Fourâ€Coordinate N,Câ€Chelate Organoboron Dyes. ChemPhotoChem, 2018, 2, 34-41.	1.5	13
89	Oxidation of aryl-substituted cycloheptatrienes by photoinduced electron transfer. Journal of the Chemical Society Perkin Transactions II, 1999, , 1695-1702.	0.9	11
90	Generation of aryltropylium ions from the corresponding bitropyls by electrochemical and photoinduced electron transfer. Journal of the Chemical Society Perkin Transactions II, 1999, , 1241-1248.	0.9	11

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91	Diastereodifferentiation of Novel Naphthalene Dyads by Fluorescence Quenching and Excimer Formation. ChemPhysChem, 2006, 7, 2175-2183.	1.0	11
92	An aminonaphthalimideâ€“putrescine conjugate as fluorescent probe for cucurbituril hostâ€“guest complexes. Supramolecular Chemistry, 2013, 25, 92-100.	1.5	11
93	Ï€-Extended Four-Coordinate Organoboron N,C-Chelates as Two-Photon Absorbing Chromophores. Journal of Organic Chemistry, 2019, 84, 13384-13393.	1.7	11
94	The photogeneration of aryltropylium ions: a potential photo-switch for supramolecular assemblies based on donorâ€“acceptor interaction. Chemical Communications, 1997, , 1383-1384.	2.2	10
95	Molecular Logic: From Single Logic Gates to Sophisticated Logic Circuits, from Fundamental Science to Practical Applications. ChemPhysChem, 2017, 18, 1665-1666.	1.0	10
96	Solvent Polarity Affects H Atom Abstractions from Câ€“H Donors. Organic Letters, 2011, 13, 2694-2697.	2.4	9
97	Highly Efficient Singletâ€“Singlet Energy Transfer in Lightâ€Harvesting [60,70]Fullereneâ€“4â€Aminoâ€1,8â€naphthalimide Dyads. ChemPhysChem, 2013, 14, 2717-2724.	1.0	9
98	Cyanineâ€Like Boronic Acidâ€Derived Salicylidenehydrazone Complexes (Cyâ€BASHY) for Bioimaging Applications. Chemistry - A European Journal, 2020, 26, 14064-14069.	1.7	9
99	Structure-dependent reactivity of oxyfunctionalized acetophenones in the photooxidation of DNA: base oxidation and strand breaks through photolytic radical formation (spin trapping, EPR) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	6.5	8
100	Diastereomeric Differentiation in the Quenching of Excited States by Hydrogen Donors. Angewandte Chemie, 2003, 115, 2635-2638.	1.6	8
101	Intramolecular exciplexes based on benzoxazole: photophysics and applications as fluorescent cation sensors. Photochemical and Photobiological Sciences, 2008, 7, 633-641.	1.6	8
102	Fiveâ€Component Selfâ€Assembly of Cucurbiturilâ€Based Heteroâ€pseudorotaxanes. ChemistryOpen, 2017, 6, 288-294.	0.9	7
103	Terpenes Show Nanomolar Affinity and Selective Binding with Cucurbit[8]uril. Israel Journal of Chemistry, 2018, 58, 487-492.	1.0	7
104	BASHY Dye Platform Enables the Fluorescence Bioimaging of Myelin Debris Phagocytosis by Microglia during Demyelination. Cells, 2021, 10, 3163.	1.8	7
105	Intramolecular singletâ€“singlet energy transfer in antenna-substituted azoalkanes. Photochemical and Photobiological Sciences, 2004, 3, 305-310.	1.6	6
106	A fluorescent acrylamide-type monomer bearing an environment-sensitive methoxybenzocoumarin structure for the development of functional polymeric sensors. Photochemical and Photobiological Sciences, 2016, 15, 1239-1246.	1.6	6
107	Photomodulation of ultrastable hostâ€“guest complexes in water and their application in light-controlled steroid release. Organic Chemistry Frontiers, 0, , .	2.3	6
108	Highly Efficient Energy Transfer Cassettes by Assembly of Boronic Acid Derived Salicylidenehydrazone Complexes. ChemPhotoChem, 2018, 2, 1038-1045.	1.5	5

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109	Visible Lightâ€Gated Organocatalysis Using a Ru II â€Photocage. Chemistry - A European Journal, 2020, 26, 14229-14235.	1.7	5
110	Bis-borylated arylisoquinoline-derived dyes with a central aromatic core: towards efficient fluorescent singlet-oxygen photosensitizers. Organic Chemistry Frontiers, 2022, 9, 4250-4259.	2.3	5
111	Molecular Switches as Platforms for Information Processing. Chimia, 2014, 68, 505.	0.3	4
112	Toward Light-Controlled Supramolecular Peptide Dimerization. Journal of Organic Chemistry, 2021, 86, 8472-8478.	1.7	4
113	The BASHY Platform Enables the Assembly of a Fluorescent Bortezomibâ€“GV1001 Conjugate. ACS Medicinal Chemistry Letters, 2022, 13, 128-133.	1.3	4
114	Theoretical and spectroscopic studies of the photochemistry of 3-(4-dimethylaminophenyl)-7-methoxy-cyclohepta-1,3,5-triene. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 162, 213-223.	2.0	3
115	Photophysical properties and fluorescence quenching of 2,3-diazabicyclo[2.2.2]oct-2-ene in zeolites. Chemical Physics Letters, 2002, 359, 289-294.	1.2	2
116	Configurationâ€Dependent Photoinduced Electron Transfer in Diastereomeric Naphthaleneâ€Aminoâ€Naphthalene Triads. Chemistry - A European Journal, 2015, 21, 12940-12946.	1.7	2
117	Universal access to megastigmanes through controlled cyclisation towards highly substituted cyclohexenes. Organic and Biomolecular Chemistry, 2017, 15, 408-415.	1.5	1
118	Arylisoquinoline-derived organoboron dyes with a triaryl skeleton show dual fluorescence. Beilstein Journal of Organic Chemistry, 2019, 15, 2612-2622.	1.3	1
119	Metal-Mediated Organocatalysis in Water: Serendipitous Discovery of Aldol Reaction Catalyzed by the [Ru(bpy)₂(nornicotine)₂]²⁺ Complex. Journal of Organic Chemistry, 2022, 87, 5412-5418.	1.7	1
120	Reduction of aryl tropylium ions by thermal hydride transfer or by photochemical reactions. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 128, 75-83.	2.0	0
121	Photosensibilisierung durch Pharmaka. Nachrichten Aus Der Chemie, 2004, 52, 1243-1246.	0.0	0
122	Reversible Molecular Logic: A Photophysical Example of a Feynman Gate. ChemPhysChem, 2009, 10, 1942-1942.	1.0	0
123	A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes). Chemistry - A European Journal, 2016, 22, 1537-1537.	1.7	0
124	Photochemistry in Huelva: Light for Triggering, Controlling, and Monitoring Chemical Processes. ChemPhotoChem, 2020, 4, 7-8.	1.5	0