Markus Gerhards

List of Publications by Year
in descending order

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86	2,536	172457	223800
papers	citations	29 h-index	46 g-index

89	89	89	1728
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and photophysical properties of multimetallic gold/zinc complexes of (P,N,N,N,P) and (P,N,N) ligands. New Journal of Chemistry, 2022, 46, 4062-4071.	2.8	2
2	Comprehensive Picture of the Excited State Dynamics of Cu(I)- and Ru(II)-Based Photosensitizers with Long-Lived Triplet States. Inorganic Chemistry, 2022, 61, 214-226.	4.0	15
3	Chromoneâ€“methanol clusters in the electronic ground and lowest triplet state: a delicate interplay of non-covalent interactions. Physical Chemistry Chemical Physics, 2022, , .	2.8	0
4	Investigation of Luminescent Triplet States in Tetranuclear Cu^I Complexes: Thermochromism and Structural Characterization. Chemistry - A European Journal, 2021, 27, 5439-5452.	3.3	25
5	Transient FTIR spectroscopy after one- and two-colour excitation on a highly luminescent chromium(<scp>iii</scp>) complex. Physical Chemistry Chemical Physics, 2021, 23, 13808-13818.	2.8	12
6	Ultrafast and long-time excited state kinetics of an NIR-emissive vanadium(<scp>iii</scp>) complex I: synthesis, spectroscopy and static quantum chemistry. Chemical Science, 2021, 12, 10780-10790.	7.4	28
7	Quantification of Cooperativity between Metal Sites in Dinuclear Transition Metal Complexes Containing the (2â€Dimethylamino)â€4â€(2â€pyrimidinyl)pyrimidine Ligand. ChemPlusChem, 2021, 86, 622-628.	2.8	8
8	Dispersionâ€Bound Isolated Dimers in the Gas Phase: Observation of the Shortest Intermolecular CHâ‹…â‹…â‹…Hâ^'C Distance via Stimulated Raman Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 11305-11309.	13.8	13
9	Dispersionsgebundene, isolierte Dimere in der Gasphase: Beobachtung des kÃ¼rzesten intermolekularen Câ€Hâ‹…â‹…â‹…Hâ€C Abstands mittels stimulierter Ramanâ€Spektroskopie. Angewandte Chemie, 2021, 133, 11405-11410.	2.8	0
10	Thermally Activated Delayed Fluorescence and Phosphorescence Quenching in Iminophosphonamide Copper and Zinc Complexes. Chemistry - A European Journal, 2021, 27, 15110-15119.	3.3	14
11	Strongly Red-Emissive Molecular Ruby [Cr(bpmp)₂]³⁺ Surpasses [Ru(bpy)₃]²⁺. Journal of the American Chemical Society, 2021, 143, 11843-11855.	13.7	66
12	NIRâ€Emissive Chromium(0), Molybdenum(0), and Tungsten(0) Complexes in the Solid State at Room Temperature. Chemistry - A European Journal, 2021, 27, 12959-12964.	3.3	22
13	Timeâ€Resolved Spectroscopy and Electronic Structure of Monoâ€and Dinuclear Pyridylâ€Triazole/DPEPhosâ€Based Cu(I) Complexes. Chemistry - A European Journal, 2021, 27, 15252-15271.	3.3	14
14	Structures and internal dynamics of diphenylether and its aggregates with water. Physical Chemistry Chemical Physics, 2020, 22, 27966-27978.	2.8	7
15	Chromium(0) and Molydenum(0) Complexes with a Pyridyl-Mesoionic Carbene Ligand: Structural, (Spectro)electrochemical, Photochemical, and Theoretical Investigations. Inorganic Chemistry, 2020, 59, 15504-15513.	4.0	24
16	Neutral Peptides in the Gas Phase: Conformation and Aggregation Issues. Chemical Reviews, 2020, 120, 12490-12562.	47.7	40
17	Structural Characterization and Lifetimes of Tripleâ€Stranded Helical Coinage Metal Complexes: Synthesis, Spectroscopy and Quantum Chemical Calculations. Chemistry - A European Journal, 2020, 26, 10743-10751.	3.3	3
18	Real-time observation of molecular flattening and intersystem crossing in [(DPEPhos)Cu(<scp>i</scp>)(PyrTet)] via ultrafast UV/Vis- and mid-IR spectroscopy on solution and solid samples. Physical Chemistry Chemical Physics, 2020, 22, 14187-14200.	2.8	13

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19	Spin Crossover and Longâ€Lived Excited States in a Reduced Molecular Ruby. Chemistry - A European Journal, 2020, 26, 7199-7204.	3.3	23
20	A Vanadium(III) Complex with Blue and NIR-II Spin-Flip Luminescence in Solution. Journal of the American Chemical Society, 2020, 142, 7947-7955.	13.7	74
21	Dispersion-controlled docking preference: multi-spectroscopic study on complexes of dibenzofuran with alcohols and water. Physical Chemistry Chemical Physics, 2019, 21, 16032-16046.	2.8	21
22	Luminescence and Lightâ€Driven Energy and Electron Transfer from an Exceptionally Longâ€Lived Excited State of a Nonâ€Innocent Chromium(III) Complex. Angewandte Chemie, 2019, 131, 18243-18253.	2.0	26
23	Luminescence and Lightâ€Driven Energy and Electron Transfer from an Exceptionally Longâ€Lived Excited State of a Nonâ€Innocent Chromium(III) Complex. Angewandte Chemie - International Edition, 2019, 58, 18075-18085.	13.8	87
24	Highly soluble fluorine containing Cu(<scp>i</scp>) AlkylPyrPhos TADF complexes. Dalton Transactions, 2019, 48, 15687-15698.	3.3	25
25	Titelbild: Luminescence and Lightâ€Driven Energy and Electron Transfer from an Exceptionally Longâ€Lived Excited State of a Nonâ€Innocent Chromium(III) Complex (Angew. Chem. 50/2019). Angewandte Chemie, 2019, 131, 18045-18045.	2.0	0
26	An intermolecular Câ€“H oxidizing strategy to access highly fused carbazole skeletons from simple naphthylamines. Chemical Communications, 2019, 55, 13749-13752.	4.1	8
27	A Phosphinoâ€Carboxylic Acidâ€Based Ru Dimeric Complex. European Journal of Inorganic Chemistry, 2018, 2018, 1394-1398.	2.0	0
28	Remarkable high efficiency of red emitters using Eu(<scp>iii</scp>) ternary complexes. Chemical Communications, 2018, 54, 5221-5224.	4.1	36
29	Deuterierter molekularer Rubin mit Rekordâ€Lumineszenzquantenausbeute. Angewandte Chemie, 2018, 130, 1125-1130.	2.0	21
30	The Effect of Dispersion on the Structure of Diphenyl Ether Aggregates. Angewandte Chemie - International Edition, 2018, 57, 9534-9537.	13.8	19
31	Control of Cooperativity through a Reversible Structural Phase Transition in MoMoâ€Methyl/Cu(111). Advanced Functional Materials, 2018, 28, 1703544.	14.9	10
32	Deuterated Molecular Ruby with Record Luminescence Quantum Yield. Angewandte Chemie - International Edition, 2018, 57, 1112-1116.	13.8	94
33	Playing with Pearson's concept: orthogonally functionalized 1,4-diaza-1,3-butadienes leading to heterobinuclear complexes. Dalton Transactions, 2018, 47, 9643-9656.	3.3	5
34	The phenyl vinyl etherâ€“methanol complex: a model system for quantum chemistry benchmarking. Beilstein Journal of Organic Chemistry, 2018, 14, 1642-1654.	2.2	12
35	Characterization of the isolated [Co3Ni(EtOH)]+ cluster by IR spectroscopy and spin-dynamics calculations. Physical Review B, 2018, 97, .	3.2	14
36	Structural Rearrangement by Isomer-Specific Infrared Excitation in the Neutral Isolated Dihydrated Cluster of 3-Hydroxyflavone. Journal of Physical Chemistry Letters, 2018, 9, 4360-4366.	4.6	2

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37	Der Effekt von Dispersionswechselwirkungen auf die Struktur von Diphenyletherâ€Aggregaten. Angewandte Chemie, 2018, 130, 9678-9682.	2.0	4
38	Nâ€Heterocyclic Carbene Complexes of Iron as Photosensitizers for Lightâ€Induced Water Reduction. European Journal of Inorganic Chemistry, 2017, 2017, 1504-1509.	2.0	46
39	Spectroscopic, Structural, and Kinetic Investigation of the Ultrafast Spin Crossover in an Unusual Cobalt(II) Semiquinonate Radical Complex. Chemistry - A European Journal, 2017, 23, 2119-2132.	3.3	36
40	Structural analyses of isolated cyclic tetrapeptides with varying amino acid residues. Physical Chemistry Chemical Physics, 2017, 19, 10718-10726.	2.8	8
41	Photophysical dynamics of a binuclear Cu(<scp>i</scp>)-emitter on the fs to Î¼s timescale, in solid phase and in solution. Physical Chemistry Chemical Physics, 2017, 19, 29438-29448.	2.8	23
42	The Structure of Diphenyl Etherâ€“Methanol in the Electronically Excited and Ionic Ground States: A Combined IR/UV Spectroscopic and Theoretical Study. ChemPhysChem, 2017, 18, 3634-3641.	2.1	9
43	Multi-spectroscopic and theoretical analyses on the diphenyl etherâ€“tert-butyl alcohol complex in the electronic ground and electronically excited state. Physical Chemistry Chemical Physics, 2017, 19, 18076-18088.	2.8	16
44	Solidâ€State Stepâ€Scan FTIR Spectroscopy of Binuclear Copper(I) Complexes. ChemPhysChem, 2017, 18, 3023-3029.	2.1	12
45	Structural investigations on a linear isolated depsipeptide: the importance of dispersion interactions. Physical Chemistry Chemical Physics, 2016, 18, 15327-15336.	2.8	14
46	Towards Printed Organic Lightâ€Emitting Devices: A Solutionâ€Stable, Highly Soluble Cu^Iâ€“NHetPHOS. Chemistry - A European Journal, 2016, 22, 16400-16405.	3.3	48
47	Aromatic embedding wins over classical hydrogen bonding â€“ a multi-spectroscopic approach for the diphenyl etherâ€“methanol complex. Physical Chemistry Chemical Physics, 2016, 18, 25975-25983.	2.8	27
48	Frontispiece: Towards Printed Organic Lightâ€Emitting Devices: A Solutionâ€Stable, Highly Soluble Cu^Iâ€“NHetPHOS. Chemistry - A European Journal, 2016, 22, .	3.3	0
49	Investigations on isolated peptides by combined IR/UV spectroscopy in a molecular beam â€“ structure, aggregation, solvation and molecular recognition. International Reviews in Physical Chemistry, 2016, 35, 569-677.	2.3	51
50	Photoemission Studies on Nâ€Substituted Dithienylated Phenothiazines. ChemPhysChem, 2015, 16, 1996-2005.	2.1	5
51	Time-resolved IR spectroscopy of a trinuclear palladium complex in solution. Physical Chemistry Chemical Physics, 2015, 17, 14138-14144.	2.8	23
52	Investigation of the hydrated 7-hydroxy-4-methylcoumarin dimer by combined IR/UV spectroscopy. Journal of Chemical Physics, 2014, 141, 194304.	3.0	6
53	Infrared and electronic absorption spectra as well as ultrafast spin dynamics in isolated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>Co</mml:mi><mml:mn>3</mml:mn><mml:mo>+</		

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55	A combined IR/IR and IR/UV spectroscopy study on the proton transfer coordinate of isolated 3-hydroxychromone in the electronic ground and excited state. Physical Chemistry Chemical Physics, 2014, 16, 21795-21803.	2.8	11
56	Adaptive Aggregation of Peptide Model Systems. Journal of Physical Chemistry A, 2013, 117, 7050-7063.	2.5	16
57	Infrared/ultraviolet quadruple resonance spectroscopy to investigate structures of electronically excited states. Journal of Chemical Physics, 2012, 136, 114202.	3.0	30
58	IR and IR + UV spectroscopy of isolated [Alâ€“AcPheOMe]n+ cluster cations (n = 1, 3). Physical Chemistry Chemical Physics, 2012, 14, 8185.	2.8	5
59	Transient IR spectroscopy and ab initio calculations on ESIPT in 3-hydroxyflavone solvated in acetonitrile. Physical Chemistry Chemical Physics, 2012, 14, 15007.	2.8	43
60	Isolated Î²â€Turn Model Systems Investigated by Combined IR/UV Spectroscopy. ChemPhysChem, 2012, 13, 1576-1582.	2.1	17
61	Structural Analysis of an Isolated Cyclic Tetrapeptide and its Monohydrate by Combined IR/UV Spectroscopy. ChemPhysChem, 2011, 12, 1981-1988.	2.1	36
62	New Hexanuclear Groupâ€…11 Pyrazolate Complexes: Synthesis and Photophysical Features. Chemistry - A European Journal, 2011, 17, 3384-3389.	3.3	46
63	Investigations of the water clusters of the protected amino acid Ac-Phe-OMe by applying IR/UV double resonance spectroscopy: microsolvation of the backbone. Physical Chemistry Chemical Physics, 2010, 12, 3511.	2.8	36
64	Structure of Isolated Xanthone in the T₁ State Obtained via Combined UV/IR Spectroscopy. ChemPhysChem, 2009, 10, 1882-1886.	2.1	20
65	Interactions of Small Protected Peptides with Aminopyrazole Derivatives: The Efficiency of Blocking a Î²â€Sheet Model in the Gas Phase. Angewandte Chemie - International Edition, 2009, 48, 900-904.	13.8	19
66	IR spectroscopy applied subsequent to a proton transfer reaction in the excited state of isolated 3-hydroxyflavone and 2-(2-naphthyl)-3-hydroxychromone. Physical Chemistry Chemical Physics, 2009, 11, 1173.	2.8	29
67	Proton/Hydrogenâ€Transfer Coordinate of 2,5â€Dihydroxybenzoic Acid Investigated in a Supersonic Beam: Combined IR/UV Spectroscopy in the S₀, S₁, and D₀ States. ChemPhysChem, 2008, 9, 2592-2600.	2.1	9
68	IR/UV spectroscopy on jet cooled 3-hydroxyflavone (H2O)n (n=1,2) clusters along proton transfer coordinates in the electronic ground and excited states. Journal of Chemical Physics, 2008, 129, 234306.	3.0	32
69	Investigation of Secondary Structure Elements by IR/UV Double Resonance Spectroscopy:â€‰ Analysis of an Isolated Î²-Sheet Model System. Journal of the American Chemical Society, 2008, 130, 4692-4698.	13.7	61
70	Secondary structure binding motifs of the jet cooled tetrapeptide model Acâ€“Leuâ€“Valâ€“Tyr(Me)â€“NHMe. Physical Chemistry Chemical Physics, 2007, 9, 4592.	2.8	25
71	Structure of a Î²-sheet model system in the gas phase: Analysis of the fingerprint region up to 10 Âµm. Physical Chemistry Chemical Physics, 2006, 8, 1660.	2.8	45
72	Double resonance spectroscopy of different conformers of the neurotransmitter amphetamine and its clusters with water. Chemical Physics, 2006, 327, 43-53.	1.9	26

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73	Structures and rearrangement reactions of 4-aminophenol(H2O)1+ and 3-aminophenol(H2O)1+ clusters. Journal of Chemical Physics, 2005, 123, 074320.	3.0	34
74	Structures of Acâ€“Trpâ€“OMe and its dimer (Acâ€“Trpâ€“OMe)2in the gas phase: influence of a polar group in the side-chain. Molecular Physics, 2005, 103, 1521-1529.	1.7	24
75	High energy and narrow bandwidth mid IR nanosecond laser system. Optics Communications, 2004, 241, 493-497.	2.1	72
76	Î²-sheet model systems in the gas phase: Structures and vibrations of Acâ€“Pheâ€“NHMe and its dimer (Acâ€“Pheâ€“NHMe)2. Physical Chemistry Chemical Physics, 2004, 6, 2682-2690.	2.8	102
77	Structure of the tripeptide model Acâ€“Valâ€“Tyr(Me)â€“NHMe and its cluster with water investigated by IR/UV double resonance spectroscopy. Physical Chemistry Chemical Physics, 2004, 6, 4636-4641.	2.8	50
78	Structure of the protected dipeptide Ac-Val-Phe-OMe in the gas phase: Towards a Î²-sheet model system. Journal of Chemical Physics, 2003, 118, 8296-8300.	3.0	69
79	Structure of a Î²-sheet model system in the gas phase: Analysis of the Cî€†O stretching vibrations. Physical Chemistry Chemical Physics, 2002, 4, 5563-5565.	2.8	120
80	Structures of the protected amino acid Acâ€“Pheâ€“OMe and its dimer: A Î²-sheet model system in the gas phase. Physical Chemistry Chemical Physics, 2002, 4, 1760-1765.	2.8	88
81	Clusters of a protected amino acid with pyrazole derivatives: -sheet model systems in the gas phase. European Physical Journal D, 2002, 20, 543-550.	1.3	20
82	IR double-resonance spectroscopy applied to the 4-aminophenol(H2O)1 cluster. Applied Physics A: Materials Science and Processing, 2001, 72, 273-279.	2.3	44
83	Ultraviolet/infrared-double resonance spectroscopy andab initiocalculations on the indole+ and indole(H2O)1+ cations. Journal of Chemical Physics, 2000, 113, 7945-7954.	3.0	71
84	Infrared Spectroscopy of Resonantly Ionized (Phenol)(H2O)n+. Journal of Physical Chemistry A, 1999, 103, 5232-5239.	2.5	86
85	Structure and vibrations of catechol in the S1 state and ionic ground state. Chemical Physics Letters, 1998, 294, 65-70.	2.6	49
86	OH stretching vibrations in aromatic cations: IR/PIRI spectroscopy. Chemical Physics Letters, 1998, 297, 515-522.	2.6	59