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	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
2	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
3	Deuterated Molecular Ruby with Record Luminescence Quantum Yield. Angewandte Chemie - International Edition, 2018, 57, 1112-1116.	13.8	94
4	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
5	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
6	Infrared Spectroscopy of Resonantly Ionized (Phenol)(H2O)n+. Journal of Physical Chemistry A, 1999, 103, 5232-5239.	2.5	86
7	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
8	High energy and narrow bandwidth mid IR nanosecond laser system. Optics Communications, 2004, 241, 493-497.	2.1	72
9	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
10	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
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	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
13	OH stretching vibrations in aromatic cations: IR/PIRI spectroscopy. Chemical Physics Letters, 1998, 297, 515-522.	2.6	59
14	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
15	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
16	Structure and vibrations of catechol in the S1 state and ionic ground state. Chemical Physics Letters, 1998, 294, 65-70.	2.6	49
17	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
18	New Hexanuclear Groupâ€…11 Pyrazolate Complexes: Synthesis and Photophysical Features. Chemistry - A European Journal, 2011, 17, 3384-3389.	3.3	46

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19	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
20	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
21	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
22	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
23	Neutral Peptides in the Gas Phase: Conformation and Aggregation Issues. Chemical Reviews, 2020, 120, 12490-12562.	47.7	40
24	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
25	Structural Analysis of an Isolated Cyclic Tetrapeptide and its Monohydrate by Combined IR/UV Spectroscopy. ChemPhysChem, 2011, 12, 1981-1988.	2.1	36
26	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
27	Remarkable high efficiency of red emitters using Eu(<scp>iii</scp>) ternary complexes. Chemical Communications, 2018, 54, 5221-5224.	4.1	36
28	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
29	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
30	Infrared/ultraviolet quadruple resonance spectroscopy to investigate structures of electronically excited states. Journal of Chemical Physics, 2012, 136, 114202.	3.0	30
31	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
32	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
33	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
34	Double resonance spectroscopy of different conformers of the neurotransmitter amphetamine and its clusters with water. Chemical Physics, 2006, 327, 43-53.	1.9	26
35	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
36	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

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37	Highly soluble fluorine containing Cu(<scp>i</scp>) AlkylPyrPhos TADF complexes. Dalton Transactions, 2019, 48, 15687-15698.	3.3	25
38	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
39	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
40	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
41	Time-resolved IR spectroscopy of a trinuclear palladium complex in solution. Physical Chemistry Chemical Physics, 2015, 17, 14138-14144.	2.8	23
42	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
43	Spin Crossover and Longâ€Lived Excited States in a Reduced Molecular Ruby. Chemistry - A European Journal, 2020, 26, 7199-7204.	3.3	23
44	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
45	Deuterierter molekularer Rubin mit Rekordâ€Lumineszenzquantenausbeute. Angewandte Chemie, 2018, 130, 1125-1130.	2.0	21
46	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
47	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
48	Structure of Isolated Xanthone in the T₁ State Obtained via Combined UV/IR Spectroscopy. ChemPhysChem, 2009, 10, 1882-1886.	2.1	20
49	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>+</mml:mo>		

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55	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
56	Structural investigations on a linear isolated depsipeptide: the importance of dispersion interactions. Physical Chemistry Chemical Physics, 2016, 18, 15327-15336.	2.8	14
57	Characterization of the isolated [Co3Ni(EtOH)]+ cluster by IR spectroscopy and spin-dynamics calculations. Physical Review B, 2018, 97, .	3.2	14
58	Thermally Activated Delayed Fluorescence and Phosphorescence Quenching in Iminophosphonamide Copper and Zinc Complexes. Chemistry - A European Journal, 2021, 27, 15110-15119.	3.3	14
59	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
60	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
61	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
62	Solidâ€State Stepâ€Scan FTIR Spectroscopy of Binuclear Copper(I) Complexes. ChemPhysChem, 2017, 18, 3023-3029.	2.1	12
63	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
64	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
65	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
66	In-depth exploration of the photophysics of a trinuclear palladium complex. Physical Chemistry Chemical Physics, 2014, 16, 8332-8338.	2.8	10
67	Control of Cooperativity through a Reversible Structural Phase Transition in MoMoâ€Methyl/Cu(111). Advanced Functional Materials, 2018, 28, 1703544.	14.9	10
68	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
69	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
70	Structural analyses of isolated cyclic tetrapeptides with varying amino acid residues. Physical Chemistry Chemical Physics, 2017, 19, 10718-10726.	2.8	8
71	An intermolecular Câ€“H oxidizing strategy to access highly fused carbazole skeletons from simple naphthylamines. Chemical Communications, 2019, 55, 13749-13752.	4.1	8
72	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

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73	Structures and internal dynamics of diphenylether and its aggregates with water. Physical Chemistry Chemical Physics, 2020, 22, 27966-27978.	2.8	7
74	Investigation of the hydrated 7-hydroxy-4-methylcoumarin dimer by combined IR/UV spectroscopy. Journal of Chemical Physics, 2014, 141, 194304.	3.0	6
75	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
76	Photoemission Studies on Nâ€Substituted Dithienylated Phenothiazines. ChemPhysChem, 2015, 16, 1996-2005.	2.1	5
77	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
78	Der Effekt von Dispersionswechselwirkungen auf die Struktur von Diphenyletherâ€Aggregaten. Angewandte Chemie, 2018, 130, 9678-9682.	2.0	4
79	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
80	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
81	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
82	Frontispiece: Towards Printed Organic Lightâ€Emitting Devices: A Solutionâ€Stable, Highly Soluble Cu^Iâ€“NHetPHOS. Chemistry - A European Journal, 2016, 22, .	3.3	0
83	A Phosphinoâ€Carboxylic Acidâ€Based Ru Dimeric Complex. European Journal of Inorganic Chemistry, 2018, 2018, 1394-1398.	2.0	0
84	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
85	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.	2.0	0
86	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