

# Robin Noel Perutz

## List of Publications by Year in descending order

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6,972  
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61984

43  
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58581

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105  
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105  
docs citations

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times ranked

4682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metathesis by Partner Interchange in $\sigma$ -Bond Ligands: Expanding Applications of the $\sigma$ -CAM Mechanism. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	36
2	Direct Evidence for Competitive C-H Activation by a Well-Defined Silver XPhos Complex in Palladium-Catalyzed C-H Functionalization. <i>Organometallics</i> , 2022, 41, 3175-3184.	2.3	11
3	Photochemistry of transition metal carbonyls. <i>Chemical Society Reviews</i> , 2022, 51, 5300-5329.	38.1	17
4	Electrocatalytic Proton Reduction by a Cobalt(III) Hydride Complex with Phosphinopyridine PN Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 18055-18067.	4.0	5
5	Towards measuring reactivity on micro-to-millisecond timescales with laser pump, NMR probe spectroscopy. <i>Faraday Discussions</i> , 2019, 220, 28-44.	3.2	1
6	Photochemical Oxidative Addition of Germane and Diphenylgermane to Ruthenium Dihydride Complexes. <i>Organometallics</i> , 2019, 38, 626-637.	2.3	8
7	Benchmarking of Halogen Bond Strength in Solution with Nickel Fluorides: Bromine versus Iodine and Perfluoroaryl versus Perfluoroalkyl Donors. <i>Chemistry - A European Journal</i> , 2019, 25, 9237-9241.	3.3	13
8	Competing Pathways in the Photochemistry of $\text{Ru}(\text{H})_2(\text{CO})(\text{PPh}_3)_3$ . <i>Organometallics</i> , 2018, 37, 855-868.	2.3	8
9	Self-complementary nickel halides enable multifaceted comparisons of intermolecular halogen bonds: fluoride ligands vs. other halides. <i>Chemical Science</i> , 2018, 9, 3767-3781.	7.4	27
10	Hydrogen bonding vs. halogen bonding: the solvent decides. <i>Chemical Science</i> , 2017, 8, 5392-5398.	7.4	176
11	Coherent evolution of para hydrogen induced polarisation using laser pump, NMR probe spectroscopy: Theoretical framework and experimental observation. <i>Journal of Magnetic Resonance</i> , 2017, 278, 25-38.	2.1	10
12	Selectivity of C-H Activation and Competition between C-H and C-F Bond Activation at Fluorocarbons. <i>Chemical Reviews</i> , 2017, 117, 8710-8753.	47.7	265
13	Photochemistry of Transition Metal Hydrides. <i>Chemical Reviews</i> , 2016, 116, 8506-8544.	47.7	108
14	Light-Induced Activation of a Molybdenum Oxotransferase Model within a Ru(II)-Mo(VI) Dyad. <i>Inorganic Chemistry</i> , 2016, 55, 12583-12594.	4.0	9
15	Platinum(0)-mediated C=O bond activation of ethers via an SN2 mechanism. <i>Dalton Transactions</i> , 2016, 45, 18842-18850.	3.3	4
16	Photochemical pump and NMR probe to monitor the formation and kinetics of hyperpolarized metal dihydrides. <i>Chemical Science</i> , 2016, 7, 7087-7093.	7.4	16
17	Detection of $\sigma$ -alkane complexes of manganese by NMR and IR spectroscopy in solution: $(\eta^5\text{-C}_5\text{H}_5)\text{Mn}(\text{CO})_2$ (ethane) and $(\eta^5\text{-C}_5\text{H}_5)\text{Mn}(\text{CO})_2$ (isopentane). <i>Chemical Science</i> , 2015, 6, 418-424.	7.4	28
18	Activation of B-H, Si-H, and C-F Bonds with $\text{Tp}^2\text{Rh}(\text{PMe}_3)_3$ Complexes: Kinetics, Mechanism, and Selectivity. <i>Journal of the American Chemical Society</i> , 2015, 137, 1258-1272.	13.7	39

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19	A Ruthenium Dihydrogen Germylene Complex and the Catalytic Synthesis of Digerinoxane. <i>Organometallics</i> , 2015, 34, 4158-4163.	2.3	25
20	Electronic Fine-tuning of Oxygen Atom Transfer Reactivity of <i>cis</i> -Dioxomolybdenum(VI) Complexes with Thiosemicarbazone Ligands. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3562-3571.	2.0	16
21	The Role of Fluorine Substituents in the Regioselectivity of Intramolecular C-H Bond Functionalization of Benzylamines at Palladium(II). <i>Organometallics</i> , 2015, 34, 4376-4386.	2.3	17
22	The Contrasting Character of Early and Late Transition Metal Fluorides as Hydrogen Bond Acceptors. <i>Journal of the American Chemical Society</i> , 2015, 137, 11820-11831.	13.7	29
23	Comparison of rhenium-porphyrin dyads for CO <sub>2</sub> photoreduction: photocatalytic studies and charge separation dynamics studied by time-resolved IR spectroscopy. <i>Chemical Science</i> , 2015, 6, 6847-6864.	7.4	81
24	Metal Hydrides Form Halogen Bonds: Measurement of Energetics of Binding. <i>Journal of the American Chemical Society</i> , 2014, 136, 1288-1291.	13.7	35
25	Highly fluorinated naphthalenes and bifurcated C-H...F...C hydrogen bonding. <i>CrystEngComm</i> , 2014, 16, 9711-9720.	2.6	21
26	Oxidative addition of ether O-methyl bonds at a Pt(0) centre. <i>Chemical Communications</i> , 2014, 50, 3914-3917.	4.1	6
27	A solvent-resistant halogen bond. <i>Chemical Science</i> , 2014, 5, 4179-4183.	7.4	122
28	Photochemical Reactions of Fluorinated Pyridines at Half-Sandwich Rhodium Complexes: Competing Pathways of Reaction. <i>Organometallics</i> , 2014, 33, 45-52.	2.3	15
29	Photochemical Pump and NMR Probe: Chemically Created NMR Coherence on a Microsecond Time Scale. <i>Journal of the American Chemical Society</i> , 2014, 136, 10124-10131.	13.7	39
30	Computational Studies Explain the Importance of Two Different Substituents on the Chelating Bis(amido) Ligand for Transfer Hydrogenation by Bifunctional Cp*Rh(III) Catalysts. <i>Organometallics</i> , 2014, 33, 3433-3442.	2.3	39
31	Selective Photochemistry at Stereogenic Metal and Ligand Centers of <i>cis</i> -[Ru(diphosphine) <sub>2</sub> (H) <sub>2</sub> ]: Preparative, NMR, Solid State, and Laser Flash Studies. <i>Journal of the American Chemical Society</i> , 2012, 134, 3480-3497.	13.7	23
32	Hydrofluoroarylation of Alkynes with Ni Catalysts. C-H Activation via Ligand-to-Ligand Hydrogen Transfer, an Alternative to Oxidative Addition. <i>Organometallics</i> , 2012, 31, 1300-1314.	2.3	161
33	C-F and C-H Bond Activation of Fluorobenzenes and Fluoropyridines at Transition Metal Centers: How Fluorine Tips the Scales. <i>Accounts of Chemical Research</i> , 2011, 44, 333-348.	15.6	430
34	Manganese Alkane Complexes: An IR and NMR Spectroscopic Investigation. <i>Journal of the American Chemical Society</i> , 2011, 133, 2303-2310.	13.7	84
35	Energetics of Halogen Bonding of Group 10 Metal Fluoride Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 14338-14348.	13.7	64
36	Liquid injection field desorption/ionization of transition metal fluoride complexes. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1213-1217.	1.7	23

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37	Selective Activation of the <i>ortho</i> C–F Bond in Pentafluoropyridine by Zerovalent Nickel: Reaction via a Metallophosphorane Intermediate Stabilized by Neighboring Group Assistance from the Pyridyl Nitrogen. <i>Organometallics</i> , 2010, 29, 1824-1831.	2.3	87
38	Design and synthesis of water soluble (metallo)porphyrins with pendant arms: studies of binding to xanthine oxidase. <i>New Journal of Chemistry</i> , 2010, 34, 1125.	2.8	9
39	Importance of palladium–carbon bond energies in direct arylation of polyfluorinated benzenes. <i>Dalton Transactions</i> , 2010, 39, 10510.	3.3	54
40	Photoinduced N <sub>2</sub> loss as a route to long-lived organometallic alkane complexes: A time-resolved IR and NMR study. <i>Chemical Science</i> , 2010, 1, 622.	7.4	44
41	Exceptional Sensitivity of Metal–Aryl Bond Energies to <i>ortho</i> -Fluorine Substituents: Influence of the Metal, the Coordination Sphere, and the Spectator Ligands on M–C/H–C Bond Energy Correlations. <i>Journal of the American Chemical Society</i> , 2009, 131, 7817-7827.	13.7	172
42	A systematic approach to the generation of long-lived metal alkane complexes: combined IR and NMR study of (Tp)Re(CO) <sub>2</sub> (cyclopentane). <i>Chemical Communications</i> , 2009, , 1401.	4.1	27
43	Competing C–F Activation Pathways in the Reaction of Pt(0) with Fluoropyridines: Phosphine-Assistance versus Oxidative Addition. <i>Journal of the American Chemical Society</i> , 2008, 130, 15499-15511.	13.7	101
44	Metal Fluorides Form Strong Hydrogen Bonds and Halogen Bonds: Measuring Interaction Enthalpies and Entropies in Solution. <i>Journal of the American Chemical Society</i> , 2008, 130, 7842-7844.	13.7	143
45	A Catalytic Foothold for Fluorocarbon Reactions. <i>Science</i> , 2008, 321, 1168-1169.	12.6	39
46	Stereochemical Nonrigidity of a Chiral Rhodium Boryl Hydride Complex: A $\sigma$ -Borane Complex as Transition State for Isomerization. <i>Journal of the American Chemical Society</i> , 2008, 130, 4375-4385.	13.7	20
47	Sequential C–F activation and borylation of fluoropyridines via intermediate Rh(i) fluoropyridyl complexes: a multinuclear NMR investigation. <i>Chemical Communications</i> , 2007, , 3664.	4.1	93
48	The $\sigma$ -CAM Mechanism: $\sigma$ -Complexes as the Basis of $\sigma$ -Bond Metathesis at Late-Transition-Metal Centers. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2578-2592.	13.8	534
49	Validation of the M–C/H–C Bond Enthalpy Relationship through Application of Density Functional Theory. <i>Journal of the American Chemical Society</i> , 2006, 128, 8350-8357.	13.7	73
50	Photochemical Isomerization of N-Heterocyclic Carbene Ruthenium Hydride Complexes: In situ Photolysis, Parahydrogen, and Computational Studies. <i>Journal of the American Chemical Society</i> , 2006, 128, 7452-7453.	13.7	20
51	Ir-Catalyzed Borylation of C–H Bonds in N-Containing Heterocycles: Regioselectivity in the Synthesis of Heteroaryl Boronate Esters. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 489-491.	13.8	206
52	C–F Bond activation at Ni(0) and simple reactions of square planar Ni(ii) fluoride complexes. <i>Dalton Transactions</i> , 2005, , 3686.	3.3	62
53	Photochemical reactions of (1-5-cyclopentadienyl)bis(t-butylacrylate) rhodium with silanes: Dynamics of isomer interconversion via Rh(I-2-silane) species. <i>Dalton Transactions</i> , 2004, , 3331-3337.	3.3	16
54	Contrasting Reactivity of Fluoropyridines at Palladium and Platinum: $\sigma$ -C–F Oxidative Addition at Palladium, $\sigma$ -C and C–F Activation at Platinum. <i>Organometallics</i> , 2004, 23, 6140-6149.	2.3	147

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55	Platinum Bis(tricyclohexylphosphine) Silyl Hydride Complexes. <i>Organometallics</i> , 2004, 23, 5744-5756.	2.3	68
56	Light-Controlled Ion Switching: Direct Observation of the Complete Nanosecond Release and Microsecond Recapture Cycle of an Azacrown-Substituted [(bpy)Re(CO)3L]+ Complex. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9037-9047.	2.5	29
57	A Comparison of C-H and C-F Bond Activation by Zerovalent Ni and Pt: A Density Functional Study. <i>Journal of the American Chemical Society</i> , 2004, 126, 5268-5276.	13.7	184
58	Synthesis and Characterization of a Siderophore-based Luminescent Sensor for Molybdate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003, 629, 2421-2426.	1.2	7
59	Direct Measurement of the Stability of the Supramolecular Synthon C6H6-C6F6. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13855-13861.	2.6	42
60	cis-trans Isomerisation of CpRe(CO)2(H)(ArF) (ArF= C6FnH5; n = 0-5) is the rate determining step in C-H activation of fluoroarenes: a DFT study. <i>Dalton Transactions</i> , 2003, , 4065-4074.	3.3	53
61	Replacement of [RuH2(PMe3)4] by [RuH2(PEt3)4] switches reaction products: synthesis of fluoride-bridged diruthenium complexes. <i>Dalton Transactions</i> , 2003, , 2184.	3.3	17
62	Bond energy M-C/H-C correlations: dual theoretical and experimental approach to the sensitivity of M-C bond strength to substituents. Electronic supplementary information (ESI) available: methods of calculation; Fig. S1: Comparison of calculated and experimental C-H bond dissociation energies for organic molecules; Table S1, comparison of calculated and experimental CO-stretching frequencies; Table S2, total energies, BDE for Re-C and H-C; Table S3, NPA charges q(C) and q(aryl) for the organic fragments C6H6. <i>Chemical Communications</i> , 2003, , 490-491.	4.1	89
63	Organometallic chemistry and catalysis. Electronic supplementary information (ESI) available: List of Posters. See <a href="http://www.rsc.org/suppdata/dt/b3/b311889d/">http://www.rsc.org/suppdata/dt/b3/b311889d/</a> . <i>Dalton Transactions</i> , 2003, , ix.	3.3	1
64	Exchange Processes in Complexes with Two Ruthenium (1-2-Silane) Linkages: Role of the Secondary Interactions between Silicon and Hydrogen Atoms. <i>Organometallics</i> , 2002, 21, 5347-5357.	2.3	75
65	Routes to fluorinated organic derivatives by nickel mediated C-F activation of heteroaromatics. <i>Chemical Communications</i> , 2002, , 2749-2757.	4.1	213
66	NMR characterisation of unstable solvent and dihydride complexes generated at low temperature by in-situ UV irradiation. <i>Chemical Communications</i> , 2002, , 2836-2837.	4.1	26
67	Preparation of cationic cobalt phenoxide and ethoxide complexes and their reversible reaction with carbon dioxide. <i>Dalton Transactions RSC</i> , 2002, , 2797-2799.	2.3	12
68	Synthesis and photochemistry of free base and zinc tetraaryl porphyrins mono-substituted with tungsten pentacarbonyl via a pyridine linker. <i>Dalton Transactions RSC</i> , 2002, , 170.	2.3	17
69	Catalytic C-F activation of polyfluorinated pyridines by nickel-mediated cross-coupling reactions. <i>Chemical Communications</i> , 2001, , 2254-2255.	4.1	137
70	The reaction of the unsaturated rhenium fragment {Re(1-5-C5Me5)(CO)2} with 1,4-difluorobenzene. Thermal intramolecular conversion of a rhenium (difluorophenyl)(hydride) to Re(1-2-C6H4F2) and a [1,4]-metallotropic shift. <i>Dalton Transactions RSC</i> , 2001, , 1452-1461.	2.3	42
71	Selective signalling of molybdate by a siderophore derivative. <i>Dalton Transactions RSC</i> , 2001, , 2327-2329.	2.3	18
72	Synthesis, characterisation and reactivity of ruthenium bis-bifluoride, ruthenium hydride bifluoride and ruthenium hydride fluoride complexes. <i>Dalton Transactions RSC</i> , 2001, , 1676-1685.	2.3	38

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73	Proton-controlled photoisomerization: rhenium(i) tricarbonyl bipyridine linked to amine or azacrown ether groups by a styryl pyridine bridging ligand. <i>Chemical Communications</i> , 2000, , 1865-1866.	4.1	59
74	Chemistry of nickel tetrafluoropyridyl derivatives: their versatile behaviour with Brønsted acids and the Lewis acid BF <sub>3</sub> ·OEt <sub>2</sub> . <i>Dalton Transactions RSC</i> , 2000, , 2013-2018.	2.3	60
75	Two photochemical pathways in competition: matrix isolation, time-resolved and NMR studies of cis-[Ru(PMe <sub>3</sub> ) <sub>4</sub> (H <sub>2</sub> )]. <i>Chemical Communications</i> , 2000, , 1175-1176.	4.1	18
76	Hydrogen Bonding in Transition Metal Complexes: Synthesis, Dynamics, and Reactivity of Platinum Hydride Bifluoride Complexes. <i>Journal of the American Chemical Society</i> , 2000, 122, 8685-8693.	13.7	83
77	Structure and Dynamic Exchange in Rhodium 1,2-Naphthalene and Rhodium 1,2-Phenanthrene Complexes: Quantitative NOESY and EXSY Studies. <i>Organometallics</i> , 2000, 19, 672-683.	2.3	24
78	Nickel-Assisted Carbon-Fluorine Bond Activation of 2,4,6-Trifluoropyrimidine: Synthesis of New Pyrimidine and Pyrimidinone Derivatives. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3326-3329.	13.8	120
79	Photochemical reactions of [Re( $\eta$ -5-C <sub>5</sub> R <sub>5</sub> )(CO) <sub>3</sub> ] (R = H or Me) with partially fluorinated benzenes: C-H and C-F activation. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 2039-2048.	1.1	38
80	Synthesis and reactions of the rhenium fulvene complexes [Re( $\eta$ -6-C <sub>5</sub> Me <sub>4</sub> CH <sub>2</sub> )(CO) <sub>2</sub> (C <sub>6</sub> F <sub>4</sub> R)] (R = F or CF <sub>3</sub> ): products derived from initial C-F activation. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 3079-3086.	1.1	41
81	Inertness of the Aryl-F Bond toward Oxidative Addition to Osmium and Rhodium Complexes: Thermodynamic or Kinetic Origin?. <i>Journal of the American Chemical Society</i> , 1998, 120, 12634-12640.	13.7	90
82	Ultrafast Time-Resolved UV-Visible and Infrared Absorption Spectroscopy of Binuclear Rhenium(II) Polypyridyl Complexes in Solution. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1252-1260.	2.5	37
83	Photochemistry of Os(dmpe) <sub>2</sub> H <sub>2</sub> : Matrix, Transient Solution, and NMR Studies of 16-Electron Os(dmpe) <sub>2</sub> (dmpe = Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ). <i>Organometallics</i> , 1998, 17, 5557-5564.	2.3	12
84	Ultrafast reductive elimination of hydrogen from a metal carbonyl dihydride complex; a study by time-resolved IR and visible spectroscopy. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 2857-2860.	1.1	35
85	Structure and dynamics of the $\eta$ -2-hexafluorobenzene complexes [Re( $\eta$ -5-C <sub>5</sub> H <sub>4</sub> R)(CO) <sub>2</sub> ( $\eta$ -2-C <sub>6</sub> F <sub>6</sub> )] (R = H or Tl). <i>Journal of the American Chemical Society</i> , 1997, 119, 1269-1280.	1.1	47
86	Synthesis, molecular structure and NMR spectroscopy of a transition-metal bifluoride complex: formation via C-F activation or reaction with Et <sub>3</sub> N·3HF. <i>Chemical Communications</i> , 1997, , 187-188.	4.1	58
87	Rapid Intermolecular Carbon-Fluorine Bond Activation of Pentafluoropyridine at Nickel(0): Comparative Reactivity of Fluorinated Arene and Fluorinated Pyridine Derivatives. <i>Organometallics</i> , 1997, 16, 4920-4928.	2.3	155
88	Transient Photochemistry, Matrix Isolation, and Molecular Structure of cis-Ru(dmpe) <sub>2</sub> H <sub>2</sub> (dmpe = Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ). <i>Journal of the American Chemical Society</i> , 1996, 118, 10784-10791.	2.3	14
89	Facile Insertion of CO <sub>2</sub> into the Ru-H Bonds of Ru(dmpe) <sub>2</sub> H <sub>2</sub> : Identification of Three Ruthenium Formate Complexes. <i>Organometallics</i> , 1996, 15, 5166-5169.	2.3	75
90	Transition Metal Alkane Complexes. <i>Chemical Reviews</i> , 1996, 96, 3125-3146.	47.7	481

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91	Facile intermolecular aromatic C-H bond activation reaction of [Ru(dmpe)2H2] (dmpe = 1,1'-bis(diphenylphosphino)ethane) by photochemical C-H activation. <i>Journal of the American Chemical Society</i> , 2001, 123, 10784-10786.	10.7	106
92	Photochemical intermolecular C-H and C-F insertion of rhodium into pentafluoroanisole to generate a metallacycle; conversion to a cyclic carbene complex. <i>Chemical Communications</i> , 1996, , 961-962.	4.1	25
93	Laser Flash Photolysis and Matrix Isolation Studies of Ru[R2PCH2CH2PR2]2H2 (R = C2H5, C6H5, C2F5): Control of Oxidative Addition Rates by Phosphine Substituents. <i>Journal of the American Chemical Society</i> , 1995, 117, 10047-10054.	13.7	49
94	Picosecond Photolysis of a Metal Dihydride: Rapid Reductive Elimination of Dihydrogen from Ru(dmpe)2H2 (dmpe = (CH3)2PCH2CH2P(CH3)2). <i>The Journal of Physical Chemistry</i> , 1994, 98, 3562-3563.	2.9	15
95	η <sup>2</sup> -Coordination and carbon-fluorine activation of hexafluorobenzene by cyclopentadienylrhodium and -iridium complexes. <i>Journal of the American Chemical Society</i> , 1993, 115, 1429-1440.	13.7	115
96	Control of η <sup>2</sup> -coordination vs. carbon-hydrogen bond activation by rhodium: the role of aromatic resonance energies. <i>Journal of the American Chemical Society</i> , 1993, 115, 7685-7695.	13.7	97
97	Matrix isolation and transient photochemistry of ruthenium complex Ru(dmpe)2H2: characterization and reactivity of Ru(dmpe)2 (dmpe = Me2PCH2CH2PMe2). <i>Journal of the American Chemical Society</i> , 1992, 114, 7425-7435.	13.7	58
98	Thermal and photochemical reactions of rhodium(trialkylsilyl)hydride complexes: NMR and bonding of poly(silyl)(hydride) complexes. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 28.	2.0	36
99	Inter- und intramolekulare photochemische C-H-Aktivierung mit Aren(carbonyl)osmium-Komplexen in Matrix und in Lösung. <i>Angewandte Chemie</i> , 1989, 101, 1721-1723.	2.0	16
100	Inter- and Intramolecular Photochemical C-H Activation in Matrices and in Solution with (η <sup>6</sup> -Arene)(carbonyl)osmium Complexes. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 1690-1692.	4.4	22
101	Photolysis and spectroscopy with polarized light: key to the photochemistry of pentacarbonylchromium and related species. <i>Inorganic Chemistry</i> , 1978, 17, 147-154.	4.0	94
102	Metathesis by partner interchange in η <sup>5</sup> -bond ligands: expanding applications of the η <sup>5</sup> -C <sub>5</sub> M <sub>5</sub> mechanism. <i>Angewandte Chemie</i> , 0, , .	2.0	6