

Publication List dr.ir. Jarl Ivar van der Vlugt

- 81 publications - **2363** citations - average citations per article: **29.5**
 - *h* index: **29** - **40** PI (*) publications - 2 papers under review (**1** as PI)

Overview of publication record (ISI Web of Knowledge and Journal Citation Reports, 2015):

| Journal Title | Impact factor (2015) | Publications Total | Publications PI |
|---------------------------------|----------------------|--------------------|-----------------|
| Science | 34.661 | 1 | |
| Chem. Soc. Rev. | 34.090 | 2 | 2 |
| Energy Environ. Sci. | 25.427 | 2 | 1 |
| J. Am. Chem. Soc. | 13.038 | 4 | 1 |
| Coord. Chem. Rev. | 12.994 | 1 | 1 |
| Angew. Chem. Int. Ed. | 11.709 | 11 | 7 |
| Chem. Sci. | 9.144 | 1 | |
| ChemSusChem | 7.116 | 1 | |
| Chem. Commun. | 6.567 | 3 | 2 |
| Adv. Synth. Catal. | 5.852 | 4 | |
| Chem. Eur. J. | 5.771 | 7 | 5 |
| Catal. Sci. Technol. | 5.287 | 3 | 3 |
| Inorg. Chem. | 4.820 | 8 | 6 |
| Org. Chem. Front. | 4.693 | 1 | |
| Organometallics | 4.186 | 9 | 4 |
| Dalton Trans. | 4.177 | 8 | 4 |
| Other (impact factor ≤ 4) | | 15 | 4 |

<http://www.uva.nl/over-de-uva/organisatie/medewerkers/content/vl/j.i.vandervlugt/j.i.van-der-vlugt.html>

name = undergraduate student (B.Sc./M.Sc.)

citations

- 2016**
- 81** Reversible redox chemistry and catalytic C(sp³)-H amination reactivity of a paramagnetic Pd complex bearing a redox-active o-aminophenol-derived NNO pincer ligand
 D.L.J. Broere, N.P. van Leest, B. de Bruin, J.I. van der Vlugt*
[Inorg. Chem. 2016, 55, doi: 10.1021/acs.inorgchem.6b01192.](https://doi.org/10.1021/acs.inorgchem.6b01192) (-)
- 80** Arene C(sp²)-H metalation at Ni^{II} modeled with a reactive PONC_{Ph} ligand
 L.S. Jongbloed, D. García-López, R. van Heck, M.A. Siegler, J.J. Carbo, J.I. van der Vlugt*
[Inorg. Chem. 2016, 55, doi: 10.1021/acs.inorgchem.6b01162.](https://doi.org/10.1021/acs.inorgchem.6b01162) (-)
- 79** Ligand-based mixed-valence in a triazole-bridged dinuclear palladium complex
 D.L.J. Broere, R. Plessius, J. Tory, S. Demeshko, B. de Bruin, M.A. Siegler, F. Hartl, J.I. van der Vlugt*
[Chem. Eur. J. 2016, 22, doi: 10.1002/chem.201601900.](https://doi.org/10.1002/chem.201601900) (-)
- 78** Dinuclear Au-complexes supported by a single ligand framework
 V. Vreeken, D.L.J. Broere, A.C.H. Jans, M. Lankelma, J.N.H. Reek, M.A. Siegler, J.I. van der Vlugt*
[Angew. Chem. Int. Ed. 2016, 55, doi: 10.1002/anie.201603938.](https://doi.org/10.1002/anie.201603938) (-)
- 77** Versatile coordination of a reactive P,N-ligand toward boron, aluminum and gallium
 M. Devillard, C. Alvarez Lamsfus, V. Vreeken, L. Maron, J.I. van der Vlugt*
[Dalton Trans. 2016, 45, 10989-10998.](https://doi.org/10.1002/dalt.201601098) (-)
- 76** Redox-active ligand mediated formation of an acyclic trinuclear ruthenium complex with bridging nitrido ligands
 B. Bagh, D.L.J. Broere, M.A. Siegler, J.I. van der Vlugt*
[Angew. Chem. Int. Ed. 2016, 55, 8381-8385.](https://doi.org/10.1002/anie.201603855) (-)
- 75** Redox-chemistry of iminopyridyl ligands in Rh(I)- and Ir(I)-complexes
 Z. Tang, C. Tejel, M. Lutz, J.I. van der Vlugt, B. de Bruin
[Eur. J. Inorg. Chem. 2016, 963-974.](https://doi.org/10.1002/anie.201603855) (-)

- 74 *Metal-metal interactions in heterobimetallic complexes with dinucleating redox active ligands*
D.L.J. Broere, D.K. Modder, E. Blokker, M.A. Siegler, J.I. van der Vlugt*
Angew. Chem. Int. Ed. **2016**, *55*, 2406-2410. (-)
- 73 *Base-free formic acid dehydrogenation via reversible cyclometalation (inside front cover)*
L.S. Jongbloed, B. de Bruin, J.N.H. Reek, M. Lutz, J.I. van der Vlugt*
Catal. Sci. Technol. **2016**, *6*, 1320-1327. (-)
- 72 *Hydrogenation of CO₂ to formic acid with iridium^{III}(bisMETAMORPhos)(hydride): the role of a dormant fac-Ir^{III}(trihydride) and an active trans-Ir^{III}(dihydride) species*
S. Oldenhof, J.I. van der Vlugt,* J.N.H. Reek*
Catal. Sci. Technol. **2016**, *6*, 404-408. (1)
- 2015**
- 71 *Platinum(II) metallamacrocycles with a ditopic diphosphine ligand*
A.E. Pascui, K. van Rees, D.W. Zant, D.L.J. Broere, M.A. Siegler, J.I. van der Vlugt*
Eur. J. Inorg. Chem. **2015**, 5687-5693. (-)
- 70 *Rh-catalyzed conversion of carbenes into ketenes and ketene imines*
Z. Tang, M. Lutz, J.I. van der Vlugt, B. de Bruin
Org. Chem. Front. **2015**, *2*, 1561-1577. (2)
- 69 *Hydrogenation of carboxylic acids with a homogeneous cobalt catalyst*
T.J. Korstanje, J.I. van der Vlugt, C.J. Elsevier, B. de Bruin
Science **2015**, *350*, 298-302. (6)
- 68 *Intermolecular C-H activation with an Ir-METAMORPhos piano-stool complex – Multiple reaction steps at a reactive ligand*
S. Oldenhof, M. Lutz, J.I. van der Vlugt,* J.N.H. Reek*
Chem. Commun. **2015**, *51*, 15200-15203. (2)
- 67 *New avenues for ligand-mediated processes – Expanding metal reactivity by the use of redox-active catechol, o-aminophenol and o-phenylenediamine ligands*
D.L.J. Broere, R. Plessius, J.I. van der Vlugt*
Chem. Soc. Rev. **2015**, *44*, 6886-6915. (20)
- 66 *Dynamic ligand reactivity in a rhodium pincer complex (front cover)*
Z. Tang, E. Otten, J.N.H. Reek, J.I. van der Vlugt,* B. de Bruin*
Chem. Eur. J. **2015**, *21*, 12683-12693. (8)
Hot Paper
- 65 *Formation and site-selective reactivity of a nonsymmetric dinuclear iridium bisMETAMORPhos complex*
S. Oldenhof, F.G. Terrade, M.Lutz, J.I. van der Vlugt,* J.N.H. Reek*
Organometallics **2015**, *34*, 3209-3215. (5)
- 64 *Efficient C-H activation of arenes by a photoactivated Ni^{II}(azide) – Formation of a transient nickel nitrido complex*
V. Vreeken, M. Lutz, B. de Bruin, J. N. H. Reek, M.A. Siegler, J.I. van der Vlugt*
Angew. Chem. Int. Ed. **2015**, *54*, 7055-7059. (3)
- 63 *Facile synthesis and versatile reactivity of an unusual cyclometalated Rh^I pincer complex*
L.S. Jongbloed, B. de Bruin, J.N.H. Reek, M. Lutz, J.I. van der Vlugt*
Chem. Eur. J. **2015**, *21*, 7297-7305. (9)
- 62 *Chiral wide bite angle diphosphine ligands: Synthesis, coordination chemistry and application in Pd-catalyzed allylic alkylation*
C.F. Czauderna, A.G. Jarvis, F.J.L. Heutz, D.B. Cordes, A.M.Z. Slawin, J.I. van der Vlugt, P.C.J. Kamer
Organometallics **2015**, *34*, 1608-1618. (2)

- 61** *Dinuclear palladium complexes with two ligand-centered radicals and a single bridging ligand: Subtle tuning of magnetic properties*
D.L.J. Broere, S. Demeshko, B. de Bruin, E.A. Pidko, J.N.H. Reek, M. Lutz, M.A. Siegler, J.I. van der Vlugt*
Chem. Eur. J. **2015**, *21*, 5879-5886. (8)
- 60** *Platinum(II)-porphyrin as a sensitizer for visible light-driven water oxidation in neutral phosphate buffer solution*
H.-C. Chen, D.G.H. Hetterscheid, R. Williams, J.I. van der Vlugt, J.N.H. Reek, A.M. Brouwer
Energy Environ. Sci. **2015**, *8*, 975-982. (9)
- 59** *Formic acid dehydrogenation by Ir-bisMETAMORPhos complexes: Experimental and computational insight in the role of a cooperative ligand acting as H-bond acceptor*
S. Oldenhof, M. Lutz, B. de Bruin, J.I. van der Vlugt, J.N.H. Reek
Chem. Sci. **2015**, *6*, 1027-1034. (13)
- 58** *Redox-active ligand-induced homolytic bond activation*
D.L.J. Broere, L.L. Metz, B. de Bruin, J.N.H. Reek, M.A. Siegler, J.I. van der Vlugt*
Angew. Chem. Int. Ed. **2015**, *54*, 1516-1520. (20)
- 57** *Cobaloxime encapsulation in a photo-active metal-organic framework for light-driven H₂ production*
M. Nasalevich, R. Becker, E.V. Ramos-Fernandez, S. Castellanos, S.L. Veber, M.V. Fedin, F. Kapteijn, J.N.H. Reek,* J.I. van der Vlugt,* J. Gascon*
Energy Environ. Sci. **2015**, *8*, 364-375. (30)
- 2014**
- 56** *A well-defined bisMETAMORPhos Pd^I-Pd^I complex: Synthesis, structural characterization and reactivity*
S. Oldenhof, M. Lutz, B. de Bruin, J.I. van der Vlugt, J.N.H. Reek
Organometallics **2014**, *33*, 7293-7298. (9)
- 55** *Intramolecular redox-active ligand-to-substrate single electron transfer: Radical reactivity with a palladium(II) complex (front cover)*
D.L.J. Broere, B. de Bruin, J.N.H. Reek, M. Lutz, S. Dechert, J.I. van der Vlugt*
J. Am. Chem. Soc. **2014**, *136*, 11574-11577. (28)
JACS Spotlights highlight
- 54** *An isolated 'nitridyl-radical' bridged Rh-N*-Rh complex*
Y. Gloaguen, C. Rebreyend, M. Lutz, P. Kumar, M.I. Huber, J.I. van der Vlugt, S. Schneider, B. de Bruin
Angew. Chem. Int. Ed. **2014**, *53*, 6814-6818. (21)
- 53** *Synthesis, coordination chemistry and cooperative activation of H₂ with ruthenium complexes of proton-responsive METAMORPhos ligands*
F.G. Terrade, M. Lutz, J.I. van der Vlugt,* J.N.H. Reek*
Eur. J. Inorg. Chem. **2014**, 1826-1835. (11)
invited article issue 'Advances in Phosphorus Chemistry'
- 52** *Hybrid diphosphorus ligands in Rh catalyzed asymmetric hydroformylation*
S.H. Chikkali,* J.I. van der Vlugt,* J.N.H. Reek*
Coord. Chem. Rev. **2014**, *262*, 1-15. (27)
- 51** *Synthesis and reactivity of chiral wide bite angle hybrid diphosphorus ligands*
C.F. Czauderna, D.B. Cordes, A.M.Z. Slawin, C. Müller, J.I. van der Vlugt, D. Vogt, P.C.J. Kamer
Eur. J. Inorg. Chem. **2014**, 1797-1810. (7)

2013

- 50 *Nitrogen centered ligand radical complexes: Classification, spectroscopic features, reactivity and catalytic applications*
A.I. Olivos Suarez, V. Lyaskovskyy, J.N.H. Reek, J.I. van der Vlugt, B. de Bruin
Angew. Chem. Int. Ed. **2013**, *52*, 12510-12529. (44)
- 49 *Reductive elimination at an orthometalated Ir^{III} hydride bearing a tripodal tetraphosphorus ligand*
Y. Gloaguen, L.M. Jongens, J.N.H. Reek, M. Lutz, B. de Bruin, J.I. van der Vlugt*
Organometallics **2013**, *32*, 4284-4291. (10)
- 48 *Base-free production of H₂ by dehydrogenation of formic acid using an iridium-bisMETAMORPhos complex*
S. Oldenhof, B. de Bruin, M. Lutz, M.A. Siegler, F.W. Patureau, J.I. van der Vlugt, J.N.H. Reek
Chem. Eur. J. **2013**, *19*, 11507-11511. (36)
- 47 *Catalyst recycling via specific non-covalent adsorption on modified silicas*
A.M. Kluwer, C. Simons, Q. Knijnenburg, J.I. van der Vlugt, B. de Bruin, J.N.H. Reek
Dalton Trans. **2013**, *42*, 3609-3616. (6)
- 46 *Reactivity of a mononuclear Ir^I species bearing a terminal phosphido fragment embedded in a triphosphorus ligand*
Y. Gloaguen, W. Jacobs, B. de Bruin, M. Lutz, J.I. van der Vlugt*
Inorg. Chem. **2013**, *52*, 1682-1684. (24)
- 45 *Regioselective Pd-catalyzed hydroamination of substituted dienes*
A. Perrier, M. Ferreira, J.N.H. Reek, J.I. van der Vlugt*
Catal. Sci. Technol. **2013**, *3*, 1375-1379. (4)
- 44 *A noble-metal free system for photocatalytic proton reduction*
B. van den Bosch, H.-C. Chen, J.I. van der Vlugt, A.M. Brouwer, J.N.H. Reek
ChemSusChem **2013**, *6*, 790-793. (9)

2012

- 43 *N-H bond activation by palladium(II) and copper(I) complexes featuring a cooperative bidentate PN-ligand (front cover)*
S.Y. de Boer, Y. Gloaguen, J.N.H. Reek, M. Lutz, J.I. van der Vlugt*
Dalton Trans. **2012**, *41*, 11276-11283. (26)
- 42 *Highly selective asymmetric Rh-catalyzed hydroformylation of heterocyclic olefins*
S.H. Chikkali, R. Bellini, B. de Bruin, J.I. van der Vlugt, J.N.H. Reek
J. Am. Chem. Soc. **2012**, *134*, 6607-6616. (42)
- 41 *Supramolecular asymmetric catalysis*
R. Bellini, J.I. van der Vlugt, J.N.H. Reek
Isr. J. Chem. **2012**, *52*, 613-629. (18)
- 40 *Cu^I click catalysis with cooperative noninnocent pyridylphosphine ligands*
S.Y. de Boer, Y. Gloaguen, M. Lutz, J.I. van der Vlugt*
Inorg. Chim. Acta **2012**, *380*, 336-342. (27)
invited article issue 'Inorganic Chemistry – the Next Generation'
- 39 *First row transition metal cooperative catalysis (front cover)*
J.I. van der Vlugt*
Eur. J. Inorg. Chem. **2012**, 363-375. (145)
invited micro-review issue 'Cooperative & Redox Noninnocent Ligands'
top-3 most cited articles of 2011-2012 & top-10 most accessed articles 06/2013-12/2015

- 2011**
- 38** *Pincer ligands with an all-phosphorus donor set: Subtle differences between rhodium and palladium*
R.C. Bauer, Y. Gloaguen, M. Lutz, J.N.H. Reek, B. de Bruin, J.I. van der Vlugt*
Dalton Trans. **2011**, *40*, 8822-8829. (29)
invited article issue 'Pincers and other Hemilabile Ligands'
- 37** *Dinuclear Cu^I thiolate complexes with a bridging noninnocent PNP-ligand*
J.I. van der Vlugt,* E.A. Pidko, R.C. Bauer, Y. Gloaguen, M.K. Rong, M. Lutz
Chem. Eur. J. **2011**, *17*, 3850-3854. (36)
- 36** *Ligands that store & release electrons during catalysis*
W.I. Dzik, J.I. van der Vlugt, J.N.H. Reek, B. de Bruin
Angew. Chem. Int. Ed. **2011**, *50*, 3356-3358. (97)
- 35** *Tunable hemilabile ligands for adaptive late transition metal complexes*
R. Lindner, B. van den Bosch, M. Lutz, J.N.H. Reek, J.I. van der Vlugt*
Organometallics **2011**, *30*, 499-510. (65)
- 2010**
- 34** *Versatile new C₃-symmetric tripodal tetraphosphine ligands; Structural flexibility to stabilize Cu^I and Rh^I species and their reactivity*
J. Wassenaar, M.A. Siegler, A.L. Spek, B. de Bruin, J.N.H. Reek,* J.I. van der Vlugt*
Inorg. Chem. **2010**, *49*, 6495-6508. (15)
- 33** *Highly enantioselective hydroformylation of dihydrofurans catalyzed by hybrid phosphine-phosphonite rhodium complexes*
S.H. Chikkali, R. Bellini, G. Berthon-Gelloz, J.I. van der Vlugt, B. de Bruin, J.N.H. Reek
Chem. Commun. **2010**, *46*, 1244-1246. (36)
- 32** *Advances in selective activation and application of ammonia in homogeneous catalysis*
J.I. van der Vlugt*
Chem. Soc. Rev. **2010**, *39*, 2302-2322. (85)
invited critical review
- 31** *Boryl based pincer ligands: New avenues in boron chemistry*
J.I. van der Vlugt*
Angew. Chem. Int. Ed. **2010**, *49*, 252-255. (41)
invited highlight
- 30** *Activation of H₂ by a highly distorted Rh^{II} complex with a new C₃-symmetric tripodal tetraphosphine ligand*
J. Wassenaar, B. de Bruin, M.A. Siegler, A.L. Spek, J.N.H. Reek,* J.I. van der Vlugt*
Chem. Commun. **2010**, *46*, 1232-1234. (14)
- 2009**
- 29** *Neutral tridentate PNP ligands and their hybrid analogues: Versatile (non-innocent) scaffolds for homogeneous catalysis*
J.I. van der Vlugt,* J.N.H. Reek
Angew. Chem. Int. Ed. **2009**, *48*, 8832-8846. (239)
invited minireview
- 28** *Water splitting via cooperative catalysis*
D.G.H. Hettterscheid, J.I. van der Vlugt, B. de Bruin, J.N.H. Reek
Angew. Chem. Int. Ed. **2009**, *48*, 8178-8181. (54)
- 27** *Cu^I complexes with a non-innocent Cu^I(PNP) complex: Selective dearomatization and electrophilic addition reactivity*
J.I. van der Vlugt,* E.A. Pidko, D. Vogt, M. Lutz, A.L. Spek
Inorg. Chem. **2009**, *48*, 7513-7515. (43)

- 26** A cationic $Ag^I(PNP^{tBu})$ species acting as PNP transfer agent: Facile synthesis of $Pd(PNP^{tBu})(alkyl)$ complexes and their reactivity compared to PCP^{tBu} analogues
J.I. van der Vlugt,* M.A. Siegler, M. Janssen, D. Vogt, A.L. Spek
Organometallics **2009**, *28*, 7025-7032. (40)
- 25** Highly selective cobalt-catalyzed hydrovinylation of vinylarenes
M.M.P. Grutters, J.I. van der Vlugt, Y. Pei, A.M. Mills, M. Lutz, A.L. Spek, C. Müller, C. Moberg, D. Vogt
Adv. Synth. Catal. **2009**, *351*, 2199-2208. (36)
- 24** Dinuclear complexes with functionalized pyrazolate ligands
A. Kumar Singh, J.I. van der Vlugt, S. Demeshko, S. Dechert, F. Meyer
Eur. J. Inorg. Chem. **2009**, 3431-3439. (19)
- 23** Solid-solid phase transition in $[Ni(OAc)(PNP^{tBu})]OTf$ leading to six independent molecules in the asymmetric unit
M. Lutz, J.I. van der Vlugt, D. Vogt, A.L. Spek
Polyhedron **2009**, *28*, 2341-2346. (9)
- 22** Cationic and neutral Ni^{II} complexes derived from a non-innocent PNP ligand: Formation of alkyl and thiolate species and their reactivity
J.I. van der Vlugt,* M. Lutz, E.A. Pidko, D. Vogt, A.L. Spek
Dalton Trans. **2009**, 1016-1023. (52)
- 2008**
- 21** T-shaped cationic Cu^I complexes with hemilabile PNP-type ligands
J.I. van der Vlugt,* E.A. Pidko, D. Vogt, M. Lutz, A.L. Spek, A. Meetsma
Inorg. Chem. **2008**, *47*, 4442-4444. (42)
- 20** Tetranuclear Co^{II} , Mn^{II} and Cu^{II} complexes of a novel binucleating pyrazolate ligand preorganized for the self-assembly of compact $[2 \times 2]$ grid structures
J.I. van der Vlugt, S. Demeshko, S. Dechert, F. Meyer
Inorg. Chem. **2008**, *47*, 1576-1585. (57)
- 2007**
- 19** Platinum-catalyzed hydroformylation of terminal and internal octenes
R. van Duren, J.I. van der Vlugt, A.M. Mills, A.L. Spek, D. Vogt
Dalton Trans. **2007**, 1053-1059. (37)
- 18** Chelate control of diiron(I) dithiolates relevant to the Fe-only hydrogenase active site
A.K. Justice, G. Zampella, L. de Goia, T.B. Rauchfuss, J.I. van der Vlugt, S.R. Wilson
Inorg. Chem. **2007**, *46*, 1655-1664. (104)
- 2006**
- 17** Chiral diphosphonite platinum complexes in asymmetric hydroformylation
R. van Duren, L.J.J.M. Cornelissen, J.I. van der Vlugt, J.P.J. Huibers, A.M. Mills, A.L. Spek, C. Müller, D. Vogt
Helv. Chim. Acta **2006**, *89*, 1547-1558 (19)
- 16** Electron-rich diferrous-phosphane-thiolates relevant to Fe-only hydrogenase: Is cyanide "nature's trimethylphosphane"?
J.I. van der Vlugt, T.B. Rauchfuss, S.R. Wilson
Chem. Eur. J. **2006**, *12*, 90-98. (46)

2005

- 15 *Synthesis and applications of chiral phosphite ligands derived from incompletely condensed silsesquioxane backbones*
G. Ionescu, J.I. van der Vlugt, H.C.L. Abbenhuis, D. Vogt
Tetrahedron: Asymmetry **2005**, *16*, 3970-3975. (27)
- 14 *Characterization of a diferrous terminal hydride mechanistically relevant to the Fe-only hydrogenases*
J.I. van der Vlugt, T.B. Rauchfuss, C.M. Whaley, S.R. Wilson
J. Am. Chem. Soc. **2005**, *127*, 16012-16013. (112)
- 13 *Platinum complexes of rigid bidentate phosphine ligands in the hydroformylation of 1-octene*
J.I. van der Vlugt, R. van Duren, G.D. Batema, R. den Heeten, A. Meetsma, J. Fraanje, K. Goubitz, P.C.J. Kamer, P.W.N.M. van Leeuwen, D. Vogt
Organometallics **2005**, *24*, 5377-5382. (32)
- 12 *Diferrous cyanides as models for the Fe-only hydrogenases*
C.A. Boyke, J.I. van der Vlugt, T.B. Rauchfuss, S.R. Wilson, G. Zampella, L. de Gioia
J. Am. Chem. Soc. **2005**, *127*, 11010-11018. (55)
- 11 *Disperse amphiphilic submicron particles as non-covalent supports for cationic homogeneous catalysts*
R. Sablong, J.I. van der Vlugt, R. Thomann, S. Mecking, D. Vogt
Adv. Synth. Catal. **2005**, *347*, 633-636 (11)
- 10 *Chiral bidentate aminophosphine ligands: Synthesis, coordination chemistry and asymmetric catalysis*
E.J. Zijp, J.I. van der Vlugt, D.M. Tooke, A.L. Spek, D. Vogt
Dalton Trans. **2005**, 512-517. (32)

2004

- 9 *Coordination chemistry and asymmetric catalysis with a chiral diphosphonite*
J.I. van der Vlugt, J.M.J. Paulusse, E.J. Zijp, J.A. Tijmensen, A.M. Mills, A.L. Spek, C. Claver, D. Vogt
Eur. J. Inorg. Chem. **2004**, 4193-4201. (20)
- 8 *Sterically demanding diphosphonite ligands – synthesis and application in nickel catalyzed isomerization of 2-methyl-3-butenitrile*
J.I. van der Vlugt, A.C. Hewat, S. Neto, R. Sablong, A.M. Mills, A.L. Spek, C. Müller, D. Vogt
Adv. Synth. Catal. **2004**, *346*, 993-1003. (64)
- 7 *Rhodium complexes of sterically constrained diphosphonites – coordination chemistry and catalysis*
J.I. van der Vlugt, R. Sablong, P.C.M.M. Magusin, A.M. Mills, A.L. Spek, D. Vogt
Organometallics **2004**, *23*, 3177-3183. (39)
- 6 *Versatile phosphite ligands based on silsesquioxane backbones*
J.I. van der Vlugt, J. Ackerstaff, T.W. Dijkstra, A.M. Mills, H. Kooijman, A.L. Spek, A. Meetsma, H.C.L. Abbenhuis, D. Vogt
Adv. Synth. Catal. **2004**, *346*, 399-412. (24)

2003

- 5 *Coordination chemistry and X-ray studies with novel sterically constrained diphosphonite ligands*
J.I. van der Vlugt, R. Sablong, A.M. Mills, H. Kooijman, A.L. Spek, A. Meetsma, D. Vogt
Dalton Trans. **2003**, 4690-4699. (30)

- 4** *A silsesquioxane-based diphosphinite ligand – synthesis, DFT study and coordination chemistry*
J.I. van der Vlugt, M. Fioroni, J. Ackerstaff, R.W.J.M. Hanssen, A.M. Mills, A.L. Spek, A. Meetsma, H.C.L. Abbenhuis, D. Vogt
Organometallics **2003**, *22*, 5297-5306. (15)
- 3** *New diphosphane ligands based on bisphenol A backbones - synthesis and coordination chemistry*
J.I. van der Vlugt, M.M.P. Grutters, A.M. Mills, H. Kooijman, A.L. Spek, D. Vogt
Eur. J. Inorg. Chem. **2003**, 4361-4369. (22)
- 2** *POSSphites – monophosphites derived from incompletely condensed silsesquioxanes*
J.I. van der Vlugt, M.M.P. Grutters, J. Ackerstaff, R.W.J.M. Hanssen, H.C.L. Abbenhuis, D. Vogt
Tetrahedron Lett. **2003**, *44*, 8301-8305. (11)
- 1** *Modular diphosphine ligands based on bisphenol A backbones*
J.I. van der Vlugt, J.M. Bonet, A.M. Mills, A.L. Spek, D. Vogt
Tetrahedron Lett. **2003**, *44*, 4389-4392. (22)
- Contributions to Books**
- 4** *Supramolecular bidentate phosphorus ligands*
J.I. van der Vlugt, J.N.H. Reek
Phosphorus(III) Ligands in Homogeneous Catalysis **2012**, 427-462. (-)
(Eds. P.C.J. Kamer, P.W.N.M. van Leeuwen)
- 3** *Chemistry in self-assembled reactors*
J.I. van der Vlugt, T.S. Koblenz, J. Wassenaar, J.N.H. Reek
Molecular Encapsulation: Reactions in Constrained Systems **2010**, 145-174. (12)
(Eds. J.-L. Mieusset, U.H. Brinker)
- 2** *Homogeneous copper-catalyzed oxidations*
J.I. van der Vlugt, F. Meyer
Top. Organomet. Chem. **2007**, *22*, 191-240. (27)
(Eds. F. Meyer, C. Limberg)
- 1** *Synthetic models for the active sites of nickel-containing enzymes*
J.I. van der Vlugt, F. Meyer
Met. Ions Life Sci. **2007**, *2*, 181-240. (12)
(Eds. A. Sigel, H. Sigel, R.K.O. Sigel)