List of Publications

Iwao Ojima

Book Edited

1. Iwao Ojima, "Catalytic Asymmetric Synthesis", VCH Publishers, New York, 1993.
2. G. I. Georg, T. Chen, I. Ojima, and D. M. Vyas (Eds.),*"Taxane Anticancer Agents: Basic Science and Current Status"*, *ACS Symp. Series 583*; American Chemical Society, Washington, D. C., 1995.
3. I. Ojima, J. McCarthy, and J. T. Welch (Eds.), *"Biomedical Frontiers of Fluorine Chemistry", ACS Symp. Series 639*; The American Chemical Society, Washington, D. C., 1996.
4. Iwao Ojima, "Catalytic Asymmetric Synthesis, Second Edition", John Wiley & Sons, New York, 2000.
5. Iwao Ojima, Gregory D. Vite, Karh-Heinz Altmann (Eds.), *"Anticancer Agents: Frontiers in Cancer Chemotherapy", ACS Symp. Series 796*, American Chemical Society, Washington, D. C., 2001.
6. Iwao Ojima (Volume Editor), *"Volume 10, Applications to Organic Synthesis I"* in *"Comprehensive Organometallic Chemistry III"* Robert H. Crabtree, Michael P. Mingos (Eds. in-Chief), Elsevier, Oxford, 2006.
7. Iwao Ojima, "Fluorine in Medicinal Chemistry and Chemical Biology", Wiley-Blackwell, Chichester (2009).
8. Iwao Ojima, "Catalytic Asymmetric Synthesis, Third Edition", John Wiley & Sons, New York (2010).
9. Iwao Ojima, "Frontiers of Organofluorine Chemistry", World Scientific, Singapore (2020).
10. Takahiko Akiyama and Iwao Ojima, "Catalytic Asymmetric Synthesis, Fourth Edition", John Wiley & Sons, New York (2022): ISBN: 978-1-119-73639-4

Guest Editor for Special Journal Issues

1. Current Topics in Medicinal Chemistry, Volume 7, Number 5 (2007), "Drug-Resistant Tuberculosis – A Challenge in Chemotherapy".
2. Accounts of Chemical Research, Volume 41, Number 1 (2008), ""Modern Molecular Approaches to Drug Design and Discovery".
3. Journal of Medicinal Chemistry, Volume 51, Number 9 (2008), Mini-Perspective, "Modern Natural Products Chemistry and Drug Discovery".
4. Molecules, Special Issue on "In-Silico Drug Design and In-Silico Screening" (2014).
5. Molecules, Special Issue on "New Generation of MicrotubuleInteracting Anticancer Agents" (2016).
6. Cancer Drug Resistance, Special Issue on "Recent advances in Tumor-Targeting Chemotherapy Drugs" (2021).

Articles

1. "Reactions of Diarylphosphines, Their Oxides and Sulfides with Isothiocyanates and Thiocyanic Acid", I. Ojima, K. Akiba, and N. Inamoto, *Bull. Chem. Soc., Japan*, **42**, 2975 (l969).
2. "A Novel Series of Transition-metal Chelates of Diphenylphosphino thioylthiourea Anion", I. Ojima, T. Iwamoto, T. Onishi, N. Inamoto, and K. Tamaru, *Chem. Commun.,* 1501 (l969).
3. "A New Route to Metal Chelates of Dimethyldithiocarbamate and Their Far Infrared Spectra", I. Ojima, T. Onishi, T. Iwamoto, N. Inamoto, and K. Tamaru, *Inorg. Nucl. Chem. Lett.*, **6**, 65 (l970).
4. "1,2-Cycloaddition of Phosphinothioyl and Sulfonyl Isothiocyanates with Carbodiimides", I. Ojima and N. Inamoto, *Chem. Commun.*, l629 (1970).
5. "Syntheses of a New Series of Transition Metal Chelates of Diphenyl phosphinothioylthiourea Anion", I. Ojima, T. Onishi, T. Iwamoto, N. Inamoto, and K. Tamaru, *Bull. Chem. Soc. Japan*, **44**, 2150 (1971).
6. "Intramolecular Reactions of α- and β-Allylthioalkylcarbenes", K. Kondo and I. Ojima, *Chem. Commun.*, 62 (l972).
7. "Intramolecular Cycloadditions of α- and β-Allylthioalkyl Diazoalkanes", K. Kondo and I. Ojima, *Chem. Commun.*, 63 (l972).
8. "Intramolecular Formation of Ylides from Carbenes Bearing Sulfide Linkages at the γ-Position", K. Kondo and I. Ojima, *Chem. Lett.*, 119 (l972).
9. "Reactions of Carbenes Bearing Sulfide Linkages at the γ-Position", K. Kondo and I. Ojima, *Chem. Commun.*, 860 (l972).
10. "Cycloadditions of Diazoalkanes to Vinyl and Allyl Sulfides Systems", K. Kondo and I. Ojima, *Chem. Lett.,* 77l (l972).
11. "Rhodium Complex Catalyzed Hydrosilylation of Carbonyl Compounds", I. Ojima, M. Nihonyanagi, and Y. Nagai, *Chem. Commun.*, 938 (l972).
12. "Reduction of Carbonyl Compounds with Various Hydrosilane-Rhodium(I) Complex Combinations", I. Ojima, T. Kogure, M. Nihonyanagi, and Y. Nagai, *Bull. Chem. Soc. Japan*, **45**, 3506 (l972).

13. "Stereoselective Reduction of Ketones with Hydrosilane-Rhodium(I) Complex Combinations", I. Ojima, M. Nihonyanagi, and Y. Nagai, *Bull. Chem. Soc. Japan*, **45**, 3722 (l972).
14. "Selective Reduction of α,β-Unsaturated Terpene Carbonyl Compounds Using Hydrosilane-Rhodium(I) Complex Combinations", I. Ojima, T. Kogure, and Y. Nagai, *Tetrahedron Lett.*, 5035 (l972).
15. "Acid Catalyzed Ring Opening Reactions of Episulfoxides", K. Kondo, A. Negishi, and I. Ojima, *J. Amer. Chem. Soc.*, **94**, 5786 (l972).
16. "Intramolecular Participation of Sulfide Linkage in the Reactivity of Carbenes and Diazoalkanes. I. Alkylcarbenes and Diazoalkanes Bearing Alkylthio, Arylthio and Allylthio Groups on α-Carbon", I. Ojima and K. Kondo, *Bull. Chem. Soc. Japan,* **46**, l539 (l973).
17. "Chemical Evidence of the Existence of pπ - dπ Interaction between the Unsaturated Bond and Sulfur Atom in Allyl and Vinyl Sulfide Systems", I. Ojima and K. Kondo, *Bull. Chem. Soc. Japan*, **46**, 257l (l973).
18. "Reactions of Diphenylphosphinothioyl Isothiocyanate and Related Compounds with Some Nucleophiles and Carbodiimides", I. Ojima, K. Akiba, and N. Inamoto, *Bull. Chem. Soc. Japan*, **46**, 2559 (l973).
19. "A Novel Route to Silylthioethers", I. Ojima, M. Nihonyanagi, and Y. Nagai, *J. Organometal. Chem.*, **50**, C26 (l973).
20. "Asymmetric Reduction of Ketones via Hydrosilylation Catalyzed by a Rhodium(I) Complex with Chiral Phosphine Ligands", I. Ojima, T. Kogure, and Y. Nagai, *Chem. Lett.*, 54l (l973).
21. "Hydrosilane-Rhodium(I) Complex Combinations as Silylating Agents of Alcohols", I. Ojima, T. Kogure, M. Nihonyanagi, H. Kono, S. Inaba, and Y. Nagai, *Chem. Lett.*, 50l (l973).
22. "A Convenient Route to Aminosilanes Using Hydrosilane-Rhodium(I) Complex Combinations", H. Kono, I. Ojima, and Y. Nagai, *Org. Prep. Proc. Internat.*, **5**, l35 (l973).
23. "Action of Tris(triphenylphosphine)chlororhodium on Polyhydrosilanes", I. Ojima, S. Inaba, and Y. Nagai, *J. Organometal. Chem.*, **55**, C7 (l973).
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26. "A Novel Route to Formamides and Their Derivatives. Reduction of Isocyanates via Hydrosilylation Catalyzed by Palladium", I. Ojima, S. Inaba, and Y. Nagai, *Tetrahedron Lett*., 4363 (l973).
27. "Reactions of Triethylsilyl Thiophenoxide with Ketones Having Electron withdrawing Group on α-Carbon", I. Ojima and Y. Nagai, *J. Organometal. Chem.*, **57**, C42 (l973).
28. "A Novel Route to 2-Carbamoylcycloalkanones by the Addition Reaction of Silyl Enol Ethers to Isocyanates", I. Ojima, S. Inaba, and Y. Nagai, *Tetrahedron Lett.*, 427l (l973).
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30. "Asymmetric Reduction of Ketones via Hydrosilylation Catalyzed by a Rhodium(I) Complex with Chiral Phosphine Ligands II. On the Mechanism of the Induction of Asymmetry", I. Ojima and Y. Nagai, *Chem. Lett.*, 223 (l974).
31. "Syntheses of *N*-Silylformamidines by the Hydrosilylation of Carbodiimides", I. Ojima, S. Inaba, and Y. Nagai, *J. Organometal. Chem.*, **72**, C11 (l974).
32. "Asymmetric Reduction of α-Keto Esters via Hydrosilylation Catalyzed by a Rhodium(I) Complex with Chiral Phosphine Ligands", I. Ojima, T. Kogure, and Y. Nagai, *Tetrahedron Lett.*, l889 (l974).
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36. "The Intramolecular Participation of Sulfide Linkage on the Reactivity of Carbenes and Diazoalkanes. II. Alkylcarbenes and Diazoalkanes Bearing Arylthio and Allylthio Groups on β-Carbon", K. Kondo and I. Ojima, *Bull. Chem. Soc. Jpn,* **48**, l490 (l975).
37. "Selective and Asymmetric Reductions of Carbonyl Compounds Using Hydrosilylation Catalyzed by Rhodium(I) Complexes", I. Ojima, In *"Organotransition Metal Chemistry"*; Y. Ishii and M. Tsutsui (Eds.); Plenum Press, New York, l975, pp 255-264.
38. "The Formation of Silylrhodium Complexes by Oxidative Addition of Hydrosilanes to Hydridotetrakis(triphenylphosphine)rhodium(I). A Homogeneous Catalyst for Hydrosilylation", H. Kono, N. Wakao, I. Ojima, and Y. Nagai, *Chem. Lett.*, l89 (l975).

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44. "Reaction of Trimethylsilyl Cyanide with Carbodiimides", I. Ojima, S. Inaba, and Y. Nagai, *J. Organometal. Chem.*, **99**, C5 (l975).
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52. "3-TMS-cyclopentene-1. A New Reagent for the Synthesis of Cyclopentene Derivatives", I. Ojima, M. Kumagai, and Y. Miyazawa, *Tetrahedron Lett.*, l385 (l977).
53. "Asymmetric Cross Aldol Synthesis. Asymmetric Addition of Silyl Enol Ether and Ketene Silyl Acetal to α-Keto Esters", I. Ojima, K. Yoshida, and S. Inaba, *Chem. Lett.*, 429 (l977).
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55. "New and effective Route to β-Lactams. The Reaction of Ketene Silyl Acetals with Schiff Bases Promoted by Titanium Tetrachloride", I. Ojima, S. Inaba, and K. Yoshida, *Tetrahedron Lett.*, 3643 (l977).
56. "Effective Homogeneous Hydrogenation of α-Keto Esters Catalyzed by Neutral Rhodium(I) Complexes with Phosphine Ligands and Application to the Asymmetric Synthesis of Lactates", I. Ojima, T. Kogure, and K. Achiwa, *J. Chem. Soc., Chem. Commun.,* 428 (l977).
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67. "Asymmetric Hydrogenation of α-Acylaminocinnamic Acid Catalyzed by Chiral Rhodium Complexes. Remarkable Effects of Hydrogen Pressure on Stereoselectivity", I. Ojima, T. Kogure and N. Yoda, *Chem. Lett.*, 495 (l979).
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