

Publication List

1. Recent Advances in Catalytic C (sp²)-H Allylation Reactions

Neeraj Kumar Mishra, **Satyasheel Sharma**, Jihye Park, Sangil Han, In Su Kim, *ACS Catalysis*, **2017**, 7, 2821-2847.

2. Installation of α -ketocarboxylate groups to C7-position of indolines via C-H addition and oxidation approach under ruthenium catalysis

Hyeim Jo, Jihye Park, Neeraj Kumar Mishra, Mijin Jeon, **Satyasheel Sharma**, Hyunjung Oh, Seok-Yong Lee, Young Hoon Jung, In Su Kim, *Tetrahedron*, **2017**, 73, 1725-1732.

3. Site-selective Cp*Rh(III)-catalyzed C-H amination of indolines with anthranils

Neeraj Kumar Mishra, Mijin Jeon, Yongguk Oh, Hyeim Jo, Jihye Park, Sangil Han, **Satyasheel Sharma**, Sang Hoon Han, Young Hoon Jung, In Su Kim, *Org. Chem. Front.*, **2017**, 4, 241-249.

4. Rhodium-Catalyzed [3 + 2] Annulation of Cyclic N- Acyl Ketimines with Activated Olefins: Anticancer Activity of Spiroisindolinones

Satyasheel Sharma, Yongguk Oh, Neeraj Kumar Mishra, Umasankar De, Hyeim Jo, Richa Sachan, Hyung Sik Kim, Young Hoon Jung, In Su Kim, *J. Org. Chem.*, **2017**, 82 (7), pp 3359–3367 (Impact Factor = 4.785) **SELECTED as Featured Article**.

5. Synthesis of Succinimide-Containing Chromones, Naphthoquinones, and Xanthenes under Rh(III) Catalysis: Evaluation of Anticancer Activity

Sang Hoon Han, Saegun Kim, Umasankar De, Neeraj Kumar Mishra, Jihye Park, **Satyasheel Sharma**, Jong Hwan Kwak, Sangil Han, Hyung Sik Kim, In Su Kim, *J. Org. Chem.*, **2016**, 81 (24), pp 12416–12425

6. Rhodium(III)-Catalyzed C(sp³)-H Alkylation of 8- Methylquinolines with Maleimides

Sangil Han, Jihye Park, Saegun Kim, Suk Hun Lee, **Satyasheel Sharma**, Neeraj Kumar Mishra, Young Hoon Jung, and In Su Kim, *Org. Lett.* **2016**, 18, 4666–4669. (Impact Factor = 6.732)

7. Synthesis of Succinimide-Containing Chromones, Naphthoquinones, and Xanthenes under Rh(III) Catalysis: Evaluation of Anticancer Activity

Sang Hoon Han, Saegun Kim, Umasankar De, Neeraj Kumar Mishra, Jihye Park, **Satyasheel Sharma**, Jong Hwan Kwak, Sangil Han, Hyung Sik Kim, In Su Kim, *J. Org. Chem.* **2016**, 81, 12416–12425. (Impact Factor = 4.785).

8. Site-Selective C-H Amidation of Azobenzenes with Dioxazolones under Rhodium Catalysis

Neeraj Kumar Mishra, Yongguk Oh, Mijin Jeon, Sangil Han, **Satyasheel Sharma**, Sang Hoon Han, Sung Hee Um, In Su Kim, *Eur. J. Org. Chem.* **2016**, 4976–4980. (Impact Factor = 3.068)

9. Rh(III)-Catalyzed C-H Functionalization of Indolines with Readily Accessible Amidating Reagent: Synthesis and Anticancer Evaluation

Mijin Jeon, Neeraj Kumar Mishra, Umasankar De, **Satyasheel Sharma**, Yongguk Oh, Miji Choi, Hyeim Jo, Richa Sachan, Hyung Sik Kim, In Su Kim, *J. Org. Chem.* **2016**, 81, 9878–9885. (Impact Factor = 4.785).

10. Cross-Coupling of Acrylamides and Maleimides under Rhodium Catalysis: Controlled Olefin Migration

Satyasheel Sharma, Sang Hoon Han, Yongguk Oh, Neeraj Kumar Mishra, Suk Hun Lee, Joa Sub Oh, In Su Kim, *Org. Lett.* **2016**, *18*, 2568–2571. (Impact Factor = 6.732)

11. Trifluoromethylallylation of Heterocyclic C–H Bonds with Allylic Carbonates under Rhodium Catalysis

Miji Choi, Jihye Park, Satyasheel Sharma, Hyeim Jo, Sangil Han, Mijin Jeon, Neeraj Kumar Mishra, Sang Hoon Han, Jong Suk Lee, In Su Kim, *J. Org. Chem.* **2016**, *81*, 4771–4778. (Impact Factor = 4.785).

12. Ruthenium(II)- or Rhodium(III)-Catalyzed Grignard-Type Addition of Indolines and Indoles to Activated Carbonyl Compounds

Hyeim Jo, Jihye Park, Miji Choi, Satyasheel Sharma, Mijin Jeon, Neeraj Kumar Mishra, Taejoo Jeong, Sangil Han, In Su Kim, *Advanced Synthesis & Catalysis*, **2016**, *358*, 2714 – 2720. (Impact Factor = 6.453).

13. Synthesis of Phthalides through Tandem Rhodium-Catalyzed C–H Olefination and Annulation of Benzamides

Neeraj Kumar Mishra, Jihye Park, Miji Choi, Satyasheel Sharma, Hyeim Jo, Taejoo Jeong, Sangil Han, Saegun Kim, In Su Kim, *Eur. J. Org. Chem.* **2016**, 3076–3083. (Impact Factor = 3.068)

14. Rhodium-Catalyzed Vinylic C–H Functionalization of Enol Carbamates with Maleimides

Satyasheel Sharma, Sang Hoon Han, Hyeim Jo, Sangil Han, Neeraj Kumar Mishra, Miji Choi, Taejoo Jeong, Jihye Park, In Su Kim, *Eur. J. Org. Chem.* **2016**, 3611–3618. (Impact Factor = 3.068)

15. Mild and Site-Selective Allylation of Enol Carbamates with Allylic Carbonates under Rhodium Catalysis

Satyasheel Sharma, Sang Hoon Han, Yongguk Oh, Neeraj Kumar Mishra, Sangil Han, Jong Hwan Kwak, Seok-Yong Lee, Young Hoon Jung, In Su Kim, *J. Org. Chem.* **2016**, *81*, 2243–2251 (Impact Factor = 4.785).

16. Access to 3- Acyl-(2H)- indazoles via Rh(III)-Catalyzed C–H Addition and Cyclization of Azobenzenes with α - Keto Aldehydes

Taejoo Jeong, Sang Hoon Han, Sangil Han, Satyasheel Sharma, Jihye Park, Jong Suk Lee, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *Org. Lett.* **2016**, *18*, 232–235 (Impact Factor = 6.732)

17. Transition-Metal-Catalyzed Oxidative and Decarboxylative Acylations through sp^2 C-H Bond Activation

Satyasheel Sharma, Neeraj Kumar Mishra, Youngmi Shin, In Su Kim, *Curr. Org. Chem.* **2016**, *20* (5), 471-511 (Impact factor = 1.949)

18. Discovery and SAR of N-(1-((substituted piperidin-4-yl)methyl)-3-methoxypiperidin-4-yl)-2-ethoxybenzamide derivatives: 5-Hydroxytryptamine receptor 4 agonist as a potent prokinetic agent

Jung Sang Park, Weonbin Im, Sunghak Choi, Sook Jin Park, Jun Min Jung, Ki Seon Baek, Han Pyo Son, **Satyasheel Sharma**, In Su Kim, Young Hoon Jung, *Eur. J. Med. Chem.* **2016**, *109*, 75-88. (Impact Factor = 3.902)

19. Rhodium-Catalyzed C–H Alkylation of Indolines with Allylic Alcohols: Direct Access to β - Aryl Carbonyl Compounds

Sang Hoon Han, Miji Choi, Taejoo Jeong, **Satyasheel Sharma**, Neeraj Kumar Mishra, Jihye Park, Joa Sub Oh, Woo Jung Kim, Jong Suk Lee, In Su Kim, *J. Org. Chem.* **2015**, *80*, 11092–11099 (Impact Factor = 4.785).

20. Direct C–H alkylation and indole formation of anilines with diazo compounds under rhodium catalysis

Neeraj Kumar Mishra, Miji Choi, Hyeim Jo, Yongguk Oh, **Satyasheel Sharma**, Sang Hoon Han, Taejoo Jeong, Sangil Han, Seok-Yong Lee, In Su Kim, *Chem. Commun.*, **2015**, *51*, 17229. (Impact Factor = 6.567)

21. Synthesis of *N*-sulfonylamidated and amidated azobenzenes under rhodium catalysis

Sangil Han, Neeraj Kumar Mishra, Satyasheel Sharma, Jihye Park, Miji Choi, Seok-Yong Lee, Joa Sub Oh, Young Hoon Jung, In Su Kim, *J. Org. Chem.* **2015**, *80*, 8026–8035 (Impact Factor = 4.785).

22. Rh(III)-catalyzed C–H amidation of indoles with isocyanates

Taejoo Jeong, Sangil Han, Neeraj Kumar Mishra, **Satyasheel Sharma**, Seok-Yong Lee, Joa Sub Oh, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *J. Org. Chem.* **2015**, *80*(14), 7243-7250 (Impact Factor = 4.785).

23. Rh(III)-catalyzed direct coupling of azobenzenes with α - diazoesters: facile synthesis of cinnolin-3(2*H*)-ones

Satyasheel Sharma, Sang Hoon Han, Sangil Han, Wontae Ji, Jongchan Oh, Seok-Yong Lee, Joa Sub Oh, Young Hoon Jung, In Su Kim, *Org. Lett.*, **2015**, *17*(11), 2852-2855 (Impact Factor = 6.732).

24. Rhodium(III)-catalyzed selective C-H cyanation of indolines and indoles with an easily accessible cyano source

Neeraj Kumar Mishra, Taejoo Jeong, **Satyasheel Sharma**, Youngmi Shin, Sangil Han, Jihye Park, Joa Sub Oh, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *Advanced Synthesis & Catalysis*, **2015**, *357*(6), 1293-1298 (Impact Factor = 6.453).

25. Rhodium-catalyzed mild and selective C–H allylation of indolines and indoles with 4-vinyl-1,3-dioxolan-2-one: facile access to indolic scaffolds with an allylic alcohol moiety

Satyasheel Sharma, Youngmi Shin, Neeraj Kumar Mishra, Jihye Park, Sangil Han, Taejoo Jeong, Yongguk Oh, Youngil Lee, Miji Choi, In Su Kim, *Tetrahedron*, **2015**, *71*(16), 2435-2441. (Impact Factor = 2.645).

26. Direct and site-selective palladium-catalyzed C-7 acylation of indolines with aldehydes

Youngmi Shin, **Satyasheel Sharma**, Neeraj Kumar Mishra, Sangil Han, Jihye Park, Hyunji Oh, Jimin Ha, Hyunwu Yoo, Young Hoon Jung, In Su Kim, *Advanced Synthesis & Catalysis*, **2015**, 357(2-3), 594-600. (Impact Factor = 6.453)

27. Mild Rh(III)-catalyzed C7-allylation of indolines with allylic carbonates

Jihye Park, Neeraj Kumar Mishra, **Satyasheel Sharma**, Sangil Han, Youngmi Shin, Taejoo Jeong, Joa Sub Oh, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *J. Org. Chem.* **2015**, 80(3), 1818-1827. (Impact Factor = 4.785)

28. Ru(II)-catalyzed selective C–H amination of xanthenes and chromones with sulfonyl azides: synthesis and anticancer evaluation

Youngmi Shin, Sangil Han, Umasankar De, Jihye Park, **Satyasheel Sharma**, Neeraj Kumar Mishra, Eui-Kyung Lee, Youngil Lee, Hyung Sik Kim, In Su Kim, *J. Org. Chem.* **2014**, 79, 19, 9262-9271. (Impact Factor = 4.785).

29. Decarboxylative acylation of indolines with α -keto acids under palladium catalysis: a facile strategy for the synthesis of 7- substituted indoles

Minyoung Kim, Neeraj Kumar Mishra, Jihye Park, Sangil Han, Youngmi Shin, **Satyasheel Sharma**, Youngil Lee, Eui-Kyung Lee, Jong Hwan Kwak, In Su Kim, *Chem. Commun.*, **2014**, 50, 14249-14252. (Impact Factor = 6.567).

30. Direct allylation of aromatic and α,β -unsaturated carboxamides under ruthenium catalysis

Mirim Kim, **Satyasheel Sharma**, Neeraj Kumar Mishra, Sangil Han, Jihye Park, Minyoung Kim, Youngmi Shin, Jong Hwan kwak, Sang Hoon Han, In Su Kim, *Chem. Commun.*, **2014**, 50, 11303-11306. (Impact Factor = 6.567).

31. Rh(III)-Catalyzed oxidative coupling of 1,2-disubstituted arylhydrazines and olefins: a new strategy for 2,3-Dihydro-1H- Indazoles

Sangil Han, Youngmi Shin, **Satyasheel Sharma**, Neeraj Kumar Mishra, Jihye Park, Mirim Kim, Minyoung Kim, Jinbong Jang, In Su Kim, *Org. Lett.*, **2014**, 16, 2494-2497. (Impact Factor = 6.732)

32. Copper-catalyzed oxidative C–O bond formation of 2-acyl phenols and 1,3-dicarbonyl compounds with ethers: direct access to phenol esters and enol esters

Jihye Park, Sang Hoon Han, **Satyasheel Sharma**, Sangil Han, Youngmi Shin, Neeraj Kumar Mishra, Jong Hwan Kwak, Cheong Hoon Lee, Jeongmi Lee, In Su Kim, *J. Org. Chem.* **2014**, 79, 4735-4742. (Impact Factor = 4.785)

33. Rh-catalyzed oxidative C2-alkenylation of indoles with alkynes: unexpected cleavage of directing group

Satyasheel Sharma, Sangil Han, Youngmi Shin, Neeraj Kumar Mishra, Hyunji Oh, Jihye Park, Jong Hwan Kwak, Beom Soo Shin, Young Hoon Jung, In Su Kim, *Tetrahedron Lett.*, **2014**, 55, 3104-3107. (Impact Factor = 2.347)

34. Rh-catalyzed oxidative C–C bond formation and C–N bond cleavage: direct access to C2-olefinated free (NH)-indoles and pyrroles

- Satyasheel Sharma**, Sangil Han, Mirim Kim, Neeraj Kumar Mishra, Jihye Park, Youngmi Shin, Jimin Ha, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *Org. Biomol. Chem.*, **2014**, 12, 1703–1706. (Impact Factor = 3.559)
- 35. Direct access to isoindolines through tandem Rh(III)-catalyzed alkenylation and cyclization of N-benzyltriflamides**
Neeraj Kumar Mishra, Jihye Park, **Satyasheel Sharma**, Sangil Han, Mirim Kim, Youngmi Shin, Jinbong Jang, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *Chem. Commun.*, **2014**, 50, 2350-2352. (Impact Factor = 6.567)
- 36. Pd-Catalyzed oxidative coupling of arene C–H bonds with benzylic ethers as acyl equivalents**
Sangil Han, **Satyasheel Sharma**, Jihye Park, Mirim Kim, Youngmi Shin, Neeraj Kumar Mishra, Jong Jin Bae, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *J. Org. Chem.* **2014**, 79, 275–284. (Impact Factor = 4.785)
- 37. Synthesis and C2-functionalization of indoles with allylic acetates under rhodium catalysis**
Mirim Kim, Jihye Park, **Satyasheel Sharma**, Sangil Han, Sang Hoon Han, Jong Hwan Kwak, Young Hoon Jung and In Su Kim, *Org. Biomol. Chem.*, **2013**, 11, 7427–7434. (Impact Factor = 3.559)
- 38. Pd(II)-catalyzed direct C–H acylation of N-Boc hydrazones with aldehydes: one-pot synthesis of 1,2-diacylbenzenes**
Satyasheel Sharma, Aejin Kim, Jihye Park, Mirim Kim, Jong Hwan Kwak, Young Hoon Jung, Jung Su Park, and In Su Kim, *Org. Biomol. Chem.*, **2013**, 11, 7869–7876. (Impact Factor = 3.559)
- 39. Cu(II)-catalyzed oxidative esterification of 2-carbonyl substituted phenols from the alcohol oxidation level**
Satyasheel Sharma, Jihye Park, Mirim Kim, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *Tetrahedron*, **2013**, 69, 45, 9391-9397. (Impact Factor = 2.645)
- 40. Palladium-catalyzed direct acylation of ketoximes and aldoximes from the alcohol oxidation level via C–H bond activation**
Satyasheel Sharma, Minyoung Kim, Jihye Park, Mirim Kim, Jong Hwan Kwak, Young Hoon Jung, Joa Sub Oh, Youngil Lee, In Su Kim, *Eur. J. Org. Chem.*, **2013**, 6656–6665. (Impact Factor = 3.068)
- 41. Pd-catalyzed oxidative acylation of 2-phenoxy pyridines with alcohols via C–H bond activation**
Minyoung Kim, **Satyasheel Sharma**, Jihye Park, Mirim Kim, Yeonhee Choi, Yukyoung Jeon, Jong Hwan Kwak, In Su Kim, *Tetrahedron*, **2013**, 69, 32, 6552-6559. (Impact Factor = 2.645)
- 42. Synthesis of meso-substituted dihydro-1,3-oxazinoporphyrins**
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- 43. Palladium-catalyzed decarboxylative acylation of *O*-phenyl carbamates with α -oxocarboxylic acids at room temperature**
Satyasheel Sharma, Aejin Kim, Eonjeong Park, Jihye Park, Minyoung Kim, Jong Hwan Kwak, Sang Hwi Lee, Young Hoon Jung, In Su Kim, *Advanced Synthesis & Catalysis*, **2013**, 355, 4, 667–672. (Impact Factor = 6.453)
- 44. Direct acylation of *N*-benzyltriflamides from the alcohol oxidation level via palladium-catalyzed C–H bond activation**
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- 45. Palladium-catalyzed oxidative acylation of *N*-benzyltriflamides with aldehydes via C–H bond activation**
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- 46. Pd(II)-catalyzed decarboxylative acylation of phenylacetamides with α -oxocarboxylic acids via C–H bond activation**
Jihye Park, Minyoung Kim, Satyasheel Sharma, Eonjeong Park, Aejin Kim, Sang Hwi Lee, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *Chem. Commun.*, **2013**, 49, 1654–1656. (Impact Factor = 6.567)
- 47. Asymmetric synthesis of (+)-trans-aerangis lactone**
Aejin Kim, Satyasheel Sharma, Jong Hwan Kwak, In Su Kim, *Bulletin of Korean Chemical Society*, **2013**, 34, 75–78. (Impact Factor = 0.793)
- 48. Palladium-catalyzed decarboxylative acylation of *O*-methyl ketoximes with α -keto acids**
Minyoung Kim, Jihye Park, Satyasheel Sharma, Aejin Kim, Eonjeong Park, Jong Hwan Kwak, Young Hoon Jung, In Su Kim, *Chem. Commun.*, **2013**, 49, 925–927. (Impact Factor = 6.567).
- 49. Tandem Rh(III)-catalyzed oxidative acylation of secondary benzamides with aldehydes and intramolecular cyclization: the direct synthesis of 3-hydroxyisoindolin-1-ones**
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- 50. Novel 5-benzazolyl-10,15,20-triphenylporphyrins and β ,meso-benzoxazolyl-bridged porphyrin dyads: synthesis, characterization and photophysical properties**
Satyasheel Sharma, Mahendra Nath, *Dyes and Pigments*, **2012**, 92, 1241–1249. (Impact Factor = 4.055)
- 51. La(OTf)₃ catalyzed one-pot synthesis of meso-substituted porphyrinic thiazolidinones**
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52. An efficient synthetic approach to novel nickel(II) 2-benzazolo-5,10,15,20-tetraphenylporphyrins

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53. Synthesis, characterization and optical properties of meso-phenyl fused quinoxalinoporphyrins

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54. An eco-friendly synthesis and antimicrobial activities of dihydro-2H-benzo-and naphtho-1,3-oxazinederivatives

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