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Professor of Polymer Science and Engineering, Chonnam National University, Korea
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Education

- Feb. 2014 Ph.D., Materials Science and Engineering, (*PI: Prof. Ji Young Chang*)
Seoul National University, Seoul, Korea
- Feb. 2008 B.S., Environmental Materials Science (Minor: Materials Science and Engineering),
Seoul National University, Seoul, Korea
- Feb. 2003 Daeil Foreign Language High School, Seoul, Korea

Work Experience

- Apr. 2023–present Professor of Polymer Science and Engineering,
Chonnam National University, Gwangju, Korea
- Mar. 2020–Apr. 2023 Associate Professor of Polymer Science and Engineering,
Chonnam National University, Gwangju, Korea
- Mar. 2017–Feb. 2020 Assistant Professor of Polymer Science and Engineering,
Chonnam National University, Gwangju, Korea
- Mar. 2014–Jan. 2017 Postdoc in Chemistry,
Pennsylvania State University, University Park, PA (*PI: Prof. Scott T. Phillips*)

Research Field

- **Keywords:** molecular design / organic synthesis / polymerization–depolymerization / self-degradable materials / sustainable materials / biomedical materials
- Design and synthesis of polymers for sustainable applications
- Development of chemical mechanisms for renewable/degradable plastics
- Functional polymers for biomedical or healthcare use

Publication

1. Jingzhe Sun, Dahye Ahn, Junseo Kim, Seunghye Han, Seokjun Cha, Jiwoo Lee, Hyeongsu Choi, Seongcheol Ahn, **Hyungwoo Kim**, Yoong Ahm Kim,* and Jong-Jin Park* Electrostatic Repulsion-Induced Highly Enhanced Dispersibility of Conductive Carbon Electrode with Shape Memory-Assisted Self-Healing Effect for Multi-Modal Sensing System. *Adv. Mater. Technol.*, **2023**, 2201978.
2. Geunyoung Choi, Yuree Oh, Songah Jeong, Mincheol Chang, and **Hyungwoo Kim*** Synthesis of Renewable, Recyclable, Degradable Thermosets Endowed with Highly Branched Polymeric Structures and Reinforced with Carbon Fibers.

Macromolecules, **2023**, 56, 2526–2535.

3. Go Bong Choi,[†] Jieun Park,[†] Seungki Hong, Jueun Choi, Tae Hoon Seo, **Hyungwoo Kim,*** and Yoong Ahm Kim* Loops at Carbon Edges: Boron-Assisted Passivation and Tunable Surface Properties of Carbon Nanofibers. *Carbon*, **2023**, 204, 587–593. (†contributed equally)
4. Jieun Park,[†] Chang Oh Lee,[†] Ki Jung Kim, Won Seok Chi,* and **Hyungwoo Kim*** Tailoring 6FDA-Based Click Cross-Linked Membranes: Modular Synthesis and Tunable Gas Separation. *Mol. Syst. Des. Eng.*, **2023**, 8, 32–38. (†contributed equally)
-invited contribution to Emerging Investigator Series
5. Eunsol Wi, Seongmoon Go, Seo Young Shin, Hyeong Jun Cheon, Ganghoon Jeong, Hyeonseon Cheon, Jihwan Kim, Hong-Ryun Jung, **Hyungwoo Kim**, and Mincheol Chang* Highly Efficient and Selective Removal of Anionic Dyes from Aqueous Solutions Using Magneto-Responsive Fe-Aminoclay/Fe₂O₃/Polyvinyl Alcohol Composite Microgels. *Chem. Eng. J.*, **2023**, 454, 140309.
6. Yun-Jin Jeong,[†] Songah Jeong,[†] Seokjae Kim,[†] Hea Ji Kim, Juyeong Jo, Arunkumar Shanmugasundaram, **Hyungwoo Kim,*** Eunpyo Choi,* and Dong-Weon Lee* 3D-Printed Cardiovascular Polymer Scaffold Reinforced by Functional Nanofiber Additives for Tunable Mechanical Strength and Controlled Drug Release. *Chem. Eng. J.*, **2023**, 454, 140118. (†contributed equally)
7. Se Hoon Jung, Geunyoung Choi, Songah Jeong, Jieun Park, Hyeonseok Yoon, Jong-Jin Park, and **Hyungwoo Kim*** Synthesis of Stimuli-Responsive, Deep Eutectic Solvent-Based Polymer Thermosets for Debondable Adhesives. *ACS Sustainable Chem. Eng.*, **2022**, 10, 13816–13824.
8. Seonmyeong Noh, Seungmin Lee, Jisun Lee, Hyemi Jo, Haney Lee, Minjin Kim, **Hyungwoo Kim**, Yoong Ahm Kim, and Hyeonseok Yoon* All-Gas-Phase Synthesis of Heterolayered Two-Dimensional Nanohybrids Decorated with Metallic Nanocatalysts for Water Splitting. *Small*, **2022**, 2203633
9. Ji Woo Kim, Hea Ji Kim, Jieun Park, Ji Ae Chae, Hyeong-Woo Song, Eunpyo Choi, and **Hyungwoo Kim*** Self-Immolative and Amphiphilic Poly(benzyl ether)-Based Copolymers: Synthesis and Triggered Demicellization via Head-to-Tail Depolymerization. *Macromolecules*, **2022**, 55, 6140–6149.
10. Bobby Aditya Darmawan, Dohoon Gong, Hyeongyu Park, Songah Jeong, Gwangjun Go, Seokjae Kim, Kim Tien Nguyen, Shirong Zheng, Minghui Nan, Van Du Nguyen, Doyeon Bang, Chang-Sei Kim, **Hyungwoo Kim,*** Jong-Oh Park,* and Eunpyo Choi* Magnetically Controlled Reversible Shape-Morphing Microrobots with Real-Time X-Ray Imaging for Stomach Cancer Applications. *J. Mater. Chem. B*, **2022**, 10, 4509–4518.
11. Dahye Ahn, Jingzhe Sun, Seunghye Han, Jiwoo Lee, Seokjun Cha, Songah Jeong, Seungmin Noh, Hyeongsu Choi, Bingqi Ren, Hyeonseok Yoon, **Hyungwoo Kim**, and Jong-Jin Park* Controllable Physical Synergized Triboelectricity, Shape Memory, Self-Healing and Optical Sensing with Rollable Form Factor by Zn cluster. *Adv. Sci.*, **2022**, 2200441.
12. Jieun Park,[†] Chang Oh Lee,[†] Ji Woo Kim, Jin Hui Jo, Won Seok Chi,* and **Hyungwoo Kim*** Poly(benzyl ether)-Type Additive to Engineer Glassy Polyimide Membranes for Enhanced Gas Separations. *Chem. Commun.*, **2022**, 58, 4364–4367. (†contributed equally)
13. Seonmyeong Noh, Semin Kim, Thanh-Hai Le, Eunseo Heo, Saerona Kim, Go Bong Choi, **Hyungwoo Kim**, Yoong Ahm Kim, and Hyeonseok Yoon* Tuning the Microphase Behavior of Carbon-Precursor Polymer Blends with Surfactant-Like Nanotubes: Toward Catalyst Support for Water Splitting. *Chem. Eng. J.*, **2022**, 431, 134027.

14. Jieun Park, Yuree Oh, Songah Jeong, Hyeong-Woo Song, Eunpyo Choi, and **Hyungwoo Kim*** Biobased Stimuli-Responsive Hydrogels That Comprise Supramolecular Interpenetrating Networks and Exhibit Programmed Behaviors. *Chem. Mater.*, **2021**, 33, 8124–8132.
-selected as a supplementary cover of Issue 20
15. Songah Jeong, Su Woong Yoo, Hea Ji Kim, Jieun Park, Ji Woo Kim, Changho Lee,* and **Hyungwoo Kim*** Recent Progress on Molecular Photoacoustic Imaging with Carbon-Based Nanocomposites. *Materials*, **2021**, 14, 5643. (review)
16. Songah Jeong, Ji Ae Chae, Hea Ji Kim, Doyoung Jung, Yoong Ahm Kim, Eunpyo Choi, and **Hyungwoo Kim*** Hierarchical Design of Functional, Fibrous, and Microporous Polymer Monoliths for the Molecular Recognition of Diethylstilbestrol. *Anal. Chem.*, **2021**, 93, 13513–13519.
17. Hao Li, Bobby Aditya Darmawan, Gwangjun Go, Seok-Jae Kim, Minghui Nan, Byungjeon Kang, **Hyungwoo Kim**, Sang Bong Lee,* Doyeon Bang,* Jong-Oh Park,* and Eunpyo Choi* Single-Layer 4D Printing System Using Focused Light: A Tool for Untethered Microrobot Applications. *Chem. Mater.*, **2021**, 33, 7703–7712.
18. Kyoung Min Lee,[†] Songah Jeong,[†] Jieun Park, and **Hyungwoo Kim*** MoS₂-Embedded, Interpenetrating Network Composite Hydrogels that Show Controlled Release of Dyes and Tunable Strength. *ACS Omega*, **2021**, 6, 25623–25630.
([†]contributed equally)
19. Ji Ae Chae, Songah Jeong, Hea Ji Kim, Tomohiro Tojo, Yuree Oh, Won Seok Chi, Hyeonseok Yoon, and **Hyungwoo Kim*** Fibrous Mesoporous Polymer Monoliths: Macromolecular Design and Enhanced Photocatalytic Degradation of Aromatic Dyes. *Polym. Chem.*, **2021**, 2021, 12, 2464-2470.
20. Doyeon Kim, Hea Ji Kim, **Hyungwoo Kim,*** and Ji Young Chang* Functional Hierarchical Pores in Polymer Monoliths: Macromolecular Synthesis and Selective Removal of Dyes. *ACS Appl. Polym. Mater.*, **2021**, 3, 1385–1394.
21. Hea Ji Kim, Go Bong Choi, Jae-Hyung Wee, Seungki Hong, Jieun Park, Yoong Ahm Kim,* and **Hyungwoo Kim*** Microporous Organic Polymers: A Synthetic Platform for Engineering Heterogeneous Carbocatalysts. *ChemSusChem*, **2021**, 14, 624–631.
-highlighted on the cover feature of Issue 2.
22. Yuree Oh, Jieun Park, Jong-Jin Park, Songah Jeong, and **Hyungwoo Kim*** Dual Cross-Linked, Polymer Thermosets: Modular Design, Reversible Transformation, and Triggered De-Bonding. *Chem. Mater.*, **2020**, 32, 6384–6391.
23. **Hyungwoo Kim,*** Adam D. Brooks, Anthony M. DiLauro, and Scott T. Phillips* Poly(carboxypyrrole)s that Depolymerize from Head to Tail in the Solid State in Response to Specific Applied Signals. *J. Am. Chem. Soc.*, **2020**, 142, 9447–9452.
-highlighted in JACS Spotlights (*J. Am. Chem. Soc.*, 2020, 142, 9081–9082).
-featured in: ACS Editors' Choice.
24. Doyeon Kim, **Hyungwoo Kim,*** and Ji Young Chang* Designing Internal Hierarchical Porous Networks in Polymer Monoliths that Exhibit Rapid Removal and Photocatalytic Degradation of Aromatic Pollutants. *Small*, **2020**, 16, 1907555.
25. Thanh-Hai Le, Yuree Oh, **Hyungwoo Kim,*** and Hyeonseok Yoon* Exfoliation of 2D Materials for Energy and Environmental Applications. *Chem. Eur. J.*, **2020**, 26, 6360–6401. (review)
-highlighted as a frontispiece of Issue 29.
26. Gyounglyul Jo, Seung Hyun Cho, **Hyungwoo Kim**, Hyeonseok Yoon, Sangil Han,* Mincheol Chang* Impacts of Secondary Solvents on Morphology and Charge Transport of Conjugated Polymer Thin Films. *Org. Electron.*, **2020**, 81, 105688.

27. Kyoung Min Lee, Yuree Oh, Hyeonseok Yoon, Mincheol Chang, and **Hyungwoo Kim*** Multifunctional Role of MoS₂ in Preparation of Composite Hydrogels: Radical Initiation and Cross-Linking. *ACS Appl. Mater. Interfaces*, **2020**, 12, 8642–8649.
28. Byullee Park,[†] Kyoung Min Lee,[†] Suhyeon Park, Misun Yun, Hak-Jong Choi, Jeesu Kim, Changho Lee,* **Hyungwoo Kim,*** and Chulhong Kim* Deep Tissue Photoacoustic Imaging of Nickel(II) Dithiolene-Containing Polymeric Nanoparticles in the Second Near-Infrared Window. *Theranostics*, **2020**, 10, 2509–2521. ([†]contributed equally)
-highlighted on the back cover of Issue 6.
-featured in: 매일경제; 전자신문; 연합뉴스; EurekAlert! etc.
29. Thanh-Hai Le, Semin Kim, Subin Chae, Yunseok Choi, Chul Soon Park, Eunseo Heo, Unhan Lee, **Hyungwoo Kim**, Oh Seok Kwon,* Won Bin Im,* and Hyeonseok Yoon* Zero Reduction Luminescence of Aqueous-Phase Alloy Core/Shell Quantum Dots via Rapid Ambient-Condition Ligand Exchange. *J. Colloid Interface Sci.*, **2020**, 564, 88–98.
30. Hyunwoo Han, Seonmyeong Noh, Subin Chae, Semin Kim, Yunseok Choi, Thanh-Hai Le, Mincheol Chang, **Hyungwoo Kim**, and Hyeonseok Yoon* Pine Cone Mold: A Toolbox for Fabricating Unique Metal/Carbon Nanohybrid Electrocatalysts. *Nanoscale*, **2019**, 11, 23241–23250.
31. Doyoung Jung, Suhyeon Park, Changho Lee,* and **Hyungwoo Kim*** Recent Progress on Near-Infrared Photoacoustic Imaging: Imaging Modality and Organic Semiconducting Agents. *Polymers*, **2019**, 11, 1693. (review).
32. Ji Ae Chae, Yuree Oh, Hea Ji Kim, Go Bong Choi, Kyoung Min Lee, Doyoung Jung, Yoong Ahm Kim, and **Hyungwoo Kim*** Preparation of Compressible Polymer Monoliths that Contain Mesopores Capable of Rapid Oil–Water Separation. *Polym. Chem.*, **2019**, 10, 5142–5150.
33. Doyoung Jung, Kyoung Min Lee, Tomohiro Tojo, Yuree Oh, Hyeonseok Yoon, and **Hyungwoo Kim*** Dual Cross-Linked Hydrogels that Undergo Structural Transformation via Selective Triggered Depolymerization. *Chem. Mater.*, **2019**, 31, 6249–6256.
34. Kyoung Min Lee and **Hyungwoo Kim*** One-Step Preparation of Hydrogel Particles that Show Rapid Detection of Hydrogen Peroxide: The Dual Role of New Methylene Blue. *Dyes Pigments*, **2019**, 170, 107546.
35. Yuree Oh, Kyoung Min Lee, Doyoung Jung, Ji Ae Chae, Hea Ji Kim, Mincheol Chang, Jong-Jin Park, and **Hyungwoo Kim*** Sustainable, Naringenin-Based Thermosets Show Reversible Macroscopic Shape Changes and Enable Modular Recycling. *ACS Macro Lett.*, **2019**, 8, 239–244.
36. Geunsu Park, Semin Kim, Subin Chae, Hyunwoo Han, Thanh-Hai Le, Kap Seung Yang, Mincheol Chang, **Hyungwoo Kim**, and Hyeonseok Yoon* Combining SWNT and Graphene in Polymer Nanofibers: A Route to Unique Carbon Precursors for Electrochemical Capacitor Electrodes. *Langmuir*, **2019**, 35, 3077–3086.
37. Kyoung Min Lee,[†] Hea Ji Kim,[†] Cheon-Soo Kang, Tomohiro Tojo, Ji Ae Chae, Yuree Oh, Min Chul Cha, Kap Seung Yang, Yoong Ahm Kim, and **Hyungwoo Kim*** Preparation of carbon-containing, compressible, microporous, polymeric monoliths that regulate macroscopic conductivity. *Polym. Chem.*, **2019**, 10, 852–859. ([†]contributed equally)
38. Gyounglyul Jo, Jae Won Jeong, Solip Choi, **Hyungwoo Kim**, Jongjin Park, Jaehan Jung,* and Mincheol Chang* Large-Scale Alignment of Polymer Semiconductor Nanowires for Efficient Charge Transport via Controlled Evaporation of Confined Fluids. *ACS Appl. Mater. Interfaces*, **2019**, 11, 1135–1142.

39. Doyoung Jung, Kyoung Min Lee, Ji Young Chang, Misun Yun, Hak-Jong Choi, Yoong Ahm Kim, Hyeonseok Yoon, and **Hyungwoo Kim*** Selective De-Cross-Linking of Transformable, Double-Network Hydrogels: Preparation, Structural Conversion and Controlled Release. *ACS Appl. Mater. Interfaces*, **2018**, 10, 42985–42991.
40. Su Woong Yoo, Doyoung Jung, Jung-Joon Min, **Hyungwoo Kim,*** and Changho Lee* Biodegradable Contrast Agents for Photoacoustic Imaging. *Appl. Sci.*, **2018**, 8, 1567. (invited review)
41. Kyoung Min Lee,[†] Kyungho Kim,[†] Hyeonseok Yoon,* and **Hyungwoo Kim*** Chemical Design of Functional Polymer Structures for Biosensors: from Nanoscale to Macroscale. *Polymers*, **2018**, 10, 551. (invited review) ([†]contributed equally)
42. Kyoung Min Lee, Hea Ji Kim, Doyoung Jung, Yuree Oh, Hyemin Lee, Changsun Han, Ji Young Chang,* and **Hyungwoo Kim*** Rapid Accessible Fabrication and Engineering of Bilayered Hydrogels: Revisiting the Cross-Linking Effect on Superabsorbent Poly(acrylic acid). *ACS Omega*, **2018**, 3, 3096–3103.
43. Kyoung Min Lee, Yuree Oh, Ji Young Chang,* and **Hyungwoo Kim*** Facile Fluorescent Labeling of a Polyacrylamide-Based Hydrogel Film via Radical Initiation Enables Selective and Reversible Detection of Al³⁺. *J. Mater. Chem. B*, **2018**, 6, 1244–1250.
44. **Hyungwoo Kim,*** Jung Ho Ryu, Hwan Kyu Kim, and Ji Young Chang* A Versatile Platform for Lanthanide(III)-Containing Organogelators: Fabrication of the Er(III)-Incorporated Polymer Nanocomposite from an Organogel Template. *New J. Chem.*, **2017**, 41, 12366–12370.
-highlighted on the cover of Issue 21.
45. Hemakesh Mohapatra,[†] **Hyungwoo Kim,**[†] and Scott T. Phillips* Stimuli-Responsive Polymer Film that Autonomously Translates a Molecular Detection Event into a Macroscopic Change in Its Optical Properties via a Continuous, Thiol-Mediated Self-Propagating Reaction. *J. Am. Chem. Soc.*, **2015**, 137, 12498–12501. ([†]contributed equally)
46. **Hyungwoo Kim,** Hemakesh Mohapatra, and Scott T. Phillips* Rapid, On-Command Debonding of Stimuli-Responsive Cross-Linked Adhesives by Continuous, Sequential Quinone Methide Elimination Reactions. *Angew. Chem., Int. Ed.*, **2015**, 54, 13063–13067.
-designated as a Very Important Paper (VIP).
-highlighted in *Synfacts 2015*, 11, 1153.
47. Matthew S. Baker, **Hyungwoo Kim,** Michael G. Olah, Gregory G. Lewis, and Scott T. Phillips* Depolymerizable Poly(benzyl ether)-Based Materials for Selective Room Temperature Recycling. *Green Chem.*, **2015**, 17, 4541–4545.
48. **Hyungwoo Kim,**[†] Matthew S. Baker,[†] and Scott T. Phillips* Polymeric Materials that Convert Local Fleeting Signals into Global Macroscopic Responses. *Chem. Sci.*, **2015**, 6, 3388–3392. ([†]contributed equally)
49. Kimy Yeung, **Hyungwoo Kim,** Hemakesh Mohapatra, and Scott T. Phillips* Surface-Accessible Detection Units in Self-Immolative Polymers Enable Translation of Selective Molecular Detection Events into Amplified Responses in Macroscopic, Solid-State Plastics. *J. Am. Chem. Soc.*, **2015**, 137, 5324–5327.
-highlighted in *Nature Chem.* 2015, 7, 465.
50. Hyunpyo Lee, **Hyungwoo Kim,** Taejin Choi, Hyun Woo Park, and Ji Young Chang* Preparation of a Microporous Organic Polymer by the Thiol-Yne Addition Reaction and Formation of Au Nanoparticles Inside the Polymer. *Chem. Commun.*, **2015**, 51, 9805–9808.

51. **Hyungwoo Kim** and Ji Young Chang* Reversible Thermochromic Polymer Film Embedded with Fluorescent Organogel Nanofibers. *Langmuir*, **2014**, 30, 13673–13679.
52. Geo San Lim, **Hyungwoo Kim**, and Ji Young Chang* Laser Highlighting on a Flat Panel Display Coated with a Double-Layered Anti-Reflection Film Containing a Europium(III) Complex. *J. Mater. Chem. C*, **2014**, 2, 10184–10188.
53. **Hyungwoo Kim**, Youngdo Kim, and Ji Young Chang* Polymers for Luminescent Sensing Applications. *Macromol. Chem. Phys.*, **2014**, 215, 1274–1285. (mini review)
54. **Hyungwoo Kim**, Min Chul Cha, Hyun Woo Park, and Ji Young Chang* Preparation of a Yb(III)-Incorporated Porous Polymer by Post-Coordination: Enhancement of Gas Adsorption and Catalytic Activity. *J. Polym. Sci. Part A: Polym. Chem.*, **2013**, 51, 5291–5297.
55. **Hyungwoo Kim**, Taejin Choi, Min Chul Cha, and Ji Young Chang* Preparation of a Porous Polymer by a Catalyst-Free Diels-Alder Reaction and Its Structural Modification by Post-Reaction. *J. Polym. Sci. Part A: Polym. Chem.*, **2013**, 51, 3646–3653.
56. **Hyungwoo Kim** and Ji Young Chang* White Light Emission from a Mixed Organogel of Lanthanide(III)-Containing Organogelators. *RSC Adv.*, **2013**, 3, 1774–1780.
57. **Hyungwoo Kim**, Youngdo Kim, and Ji Young Chang* Preparation of a Molecularly Imprinted Polymer Containing Europium(III) Ions for Luminescent Sensing. *J. Polym. Sci. Part A: Polym. Chem.*, **2012**, 50, 4990–4994.
58. **Hyungwoo Kim** and Ji Young Chang* Synthesis of a Film-Forming Europium(III) Complex and Its Organogelation and Photoluminescent Properties. *Soft Matter*, **2011**, 7, 7952–7955.

Patent (granted)

1. Recyclable, degradable polymer thermosets and synthetic method and application thereof. KR Patent, 10-2433610, 08.12.2022
2. Method of Preparing Inorganic Hydrogel Nanocomposites Capable of Self-Healing. KR Patent, 10-2290930, 08.11.2021
3. Naringenin Based Thermosets and Manufacturing Method of It. KR Patent, 10-2188113, 12.01.2020
4. A Hydrogel Film Capable of Selectively Detecting Aluminum Ions and Method of Manufacturing the Same. KR Patent, 10-2055043, 12.05.2019
5. Selective De-cross-Linking of Transformable Double-network Hydrogel and Fabricating Method Thereof. KR Patent, 10-2058182, 11.15.2019
6. Hydrogel Actuator Having Acrylic Acid and Method for Fabricating Hydrogel Actuator. KR Patent, 10-2025864, 09.20.2019

Professional Service

1. Reviewers for SCI journals: *Adv. Mater.*, *JACS*, *Small*, *Chem. Mater.*, *Biomacromolecules*, *Chem. Commun.*, *Carbohydr. Polym.*, *Polym. Chem.*, *ACS sustainable Chem. Eng.*, *ACS Appl. Mater. Interfaces*, etc.
2. Guest editor, *Applied Sciences*, Special issue on “Recent Trends in Polymer Nanoscience and Nanotechnology” 2018.
3. Guest editor, *Polymers*, Special issue on “Conductive Polymers III” 2018–2019.

4. Guest editor, Materials, Special issue on “Polymeric Materials as Theranostic Agents” 2018–2019.
5. Guest editor, Materials, Special issue on “Functional Carbon-based Nanomaterials and Nanocomposites” 2019–2020.

Award

1. Excellence in Teaching Award, Chonnam National University, 2022.
2. 우수교수상 교육연구부문, 전남대학교 공과대학, 2022.

Teaching Experience

1. Organic chemistry 1, 2
2. Fiber assembly engineering
3. Energy materials
4. Instrumental analysis
5. Polymer science and technology
6. Fundamental design of convergence engineering
7. Advanced organic chemistry (graduate)

Student (advisee)

1. Graduates: Songah Jeong; Ji Woo Kim; Geunyoung Choi; Se Hoon Jung; Byungjun Choi; Seo Yoon Jeong; Seo Yeon Choi
2. Undergraduates:
3. Alumni: Kyoung Min Lee (Postdoc '20, Samsung Electro-Mechanics); Doyoung Jung (M.S. '20, SK Hynix); Hea Ji Kim (M.S. '21, Chonnam National University Hospital); Yuree Oh (M.S. '21, Dongjin); Ji Ae Chae (M.S. '21, Emtier); Doyeon Kim (Ph.D. '21 co-advising, Samsung Electronics); Jieun Park (M.S. '23, Samyang Corp.)