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CURRICULUM VITAE



■ **PERSONAL**

Name in Full : WON-CHUN OH
(TEL : +82-10-3775-9289)

■ **CAREER**

- ▷ Present-March 2, 1998 : Professor, Hanseo University in KOREA
- ▷ Present-May, 2009 : Editor chief, International Journal of Multifunctional Materials and Photoscience
- ▷ Present-September, 2010 : Adversary Editor, Asian Journal of Chemistry
- ▷ Present-November, 2013 : Associate Editor, International Journal of Materials
- ▷ 2007-2008, World Top 100 Scientist, IBC (International Biographic Center) in Oxford, UK.
- ▷ 2016~2017, Jiangsu Province 100 Foreigner Experts (JSB2016017), Jiangsu Province, China
- ▷ Present-May 2, 2008 : Guest Professor, Anhui University of Architecture in CHINA
- ▷ Present-May 22, 2008 : Guest Professor, Hefei University in CHINA
- ▷ Present-June 29, 2010 : Professor, Anhui University of Science and Technology in CHINA
- ▷ Present-December 24, 2008 : Guest Professor, Huangsan University in CHINA
- ▷ Present-June, 2013 : Guest Professor, Suzhou University of Science and Technology in CHINA
- ▷ Present-June, 2016 : Guest Professor, Bangfu University in CHINA

- ▷ Present-July, 2016 : Guest Professor, KhonKaen University in Thailand
- ▷ November 25, 2010 : Conference Chairman, The 4th China-Korea International Conference on Multi-functional Materials and Application (Korea)
- ▷ November 24-26, 2011 : Conference Local Chairman, The 5th China-Korea International Conference on Multi-functional Materials and Application (China)
- ▷ November 22-25, 2012 : Conference Local Chairman, The 6th International Conference on Multi-functional Materials and Application (Daejeon, Korea)
- ▷ November 22-24, 2013 : Conference Local Chairman, The 7th International Conference on Multi-functional Materials and Application (Anhui, China)
- ▷ November 27-29, 2014 : Conference Local Chairman, The 8th International Conference on Multi-functional Materials and Application (Asan, Korea)
- ▷ November 26-28, 2015 : Conference Local Chairman, The 9th International Conference on Multi-functional Materials and Application (Suzhou, China)
- ▷ December 1-3, 2016 : Conference Vice Chairman & Local Chairman, The 10th International Conference on Multi-functional Materials and Application (KhonKaen, Thailand)
- ▷ November 16-19, 2017 : Conference Vice Chairman & Local Chairman, The 11th International Conference on Multi-functional Materials and Application (Anhui Zhenjiu University, China)
- ▷ February 28, 1998- November 2, 1990 : Senior Research, Institute of Carbon Chemistry in Seoul National University of Education
- ▷ June, 1993 : Course to Carbon Technologies - State University of NewYork at Buffalo, U.S.A

■ THESIS and Degree

A Study on the Deintercalation Mechanism for Stage 1, 2 of H₂SO₄-Graphite Intercalation Compounds <1995-Philosophy of Doctor, Dankook University, Korea>

■ PUBLICATIONS & PRESENTATIONS

1. Domestic papers : 123

2. International papers (SCI): 316 **Published Papers : 439**

3. Domestic presentations : 62

4. International presentations (Plenary Lecture & Invited speaking) : 188

Presentation : 249

Total : 688

<Last 2 years>

622. Lei Zhu & Won-Chun Oh

[SCI] Excellent visible light photocatalytic properties of novel graphene based CdLa₂S₄/TiO₂ heterojunction nanocomposite, FULLERENES, NANOTUBES AND CARBON NANOSTRUCTURES, 2017, VOL. 25, NO. 1, 1-11, <http://dx.doi.org/10.1080/1536383X.2016.1236792>ISSN: 1536-383X (Print) 1536-4046 (Online)

623. Shu Ye, Won-Chun Oh

[SCOPUS] Novel Synthesis and Characterization of Pt-graphene/TiO₂ composite [designed for high photonic effect and photocatalytic activity under visible light](#), Journal of the Korean Ceramic Society, Vol. 54, No. 1, pp. 1~5, 2017.

624. Young-Shin Ko and Won-Chun Oh

[Int'I] High technical applications (thermal and electrical resistivity aspects) of expanded graphite, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE, 7(2), December 2016, pp. 59-69.

625. Shu Ye, Won-Chun Oh

[Int'I] A review on CVD products based materials for supercapacitor electrodes, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE, 7(2), December 2016, pp. 81-97.

626. Chencheng Wang, Lutian Jing, Mengpin Chen, Zeda Meng, Zhigang Chen, Feng Chen and Won-Chun Oh

[SCOPUS] Biotemplate Synthesis of Micron Braid Structure CeO₂-TiO₂ Composite and Analysis of its Catalytic Behavior for CO Oxidation, Journal of the Korean Ceramic Society, Vol. 54, No. 1, pp. 23~27, 2017.

627. Shu Ye, Ick-Jun Kim, Sun-hye Yang, Jae-won Lee, Won-Chun Oh

[SCI] CVD grown graphene/CNT composite as additive material to improve the performance of electric double layer capacitors (EDLCs), Journal of Materials Science: Materials in Electronics, First Online: 03 February 2017, DOI: 10.1007/s10854-017-6349-0

628. Fazhi Xie, Tingting Hu, Won-Chun Oh, Dandan Sheng, Haibin Li, Xuechun Wang, Zhiyong Xie, Guolian Li, Xuan Han, Wenjie Xie, and Mei Sun

- [SCOPUS] Sorption behavior and mechanism of phosphate onto natural magnesite, Korean J. Mater. Res., Vol. 27, No. 3 (2017), 166-171
629. Yonrapach Areerob, Kwang-Youn Cho, Won-Chun Oh
- [SCI] Microwave assisted synthesis of graphene-Bi₈La₁₀O₂₇-Zeolite nanocomposite with efficient photocatalytic activity towards organic dye degradation, Journal of Photochemistry and Photobiology A: Chemistry 340 (2017) 157–169
630. Yi Ding, Bo Zhang, Qifang Ren, Qicai Zhang, Weiwei Zha, Xin Li, Shaohua Chen, Won-Chun Oh
- [SCOPUS] 3D Architectures LaVO₄:Eu³⁺ Microcrystals via EG-assisted Hydrothermal method: Phase Selective Synthesis, Growth Mechanism and Luminescent Properties, Journal of the Korean Ceramic Society, Vol. 54, No. 2, pp. 96~101, 2017.
631. Dinh Cung Tien Nguyen, Kwang-Youn Cho, Won-Chun Oh
- [SCI] Synthesis of frost-like CuO combined graphene-TiO₂ by self-assembly method and its high photocatalytic performance, Applied Surface Science 412 (2017) 252–261
632. **Asghar Ali & Won-Chun Oh**
- [SCIE] Preparation of Nanowire like WSe₂-Graphene Nanocomposite for Photocatalytic Reduction of CO₂ into CH₃OH with the Presence of Sacrificial Agents, 7: 1867, *Scientific Reports*, DOI:10.1038/s41598-017-02075-7 Published online 12 May 2017.
633. Ze-Da Meng and Won-Chun Oh
- [SCOPUS] Detection of Oxygen Species Generated from Ag₂Se-Graphene Heterojunction Photocatalysts with Excellent Visible Light Driven Photocatalytic Performance, Korean J. Mater. Res., Vol. 27, No. 5 pp 255-262 (2017).
634. Asghar Ali, Lei Zhu, Shu Ye, Jin-do Chung, Won-Chun Oh
- [SCI] Novel synthesis of TiO₂ combined spherical carbon for the photocatalytic decolorization of commercial Texbrite dyes under visible light response, *Desalination and Water Treatment*, 72 (2017) 374–385.
635. Asghar Ali and Won-Chun Oh
- [SCOPUS] Ultrasonic Synthesis of CoSe₂-Graphene-TiO₂ Ternary Composites for High Photocatalytic Degradation Performance, Journal of the Korean Ceramic Society, Vol. 54, No. 3, pp. 205~210, 2017.
636. Dinh Cung Tien Nguyen, Kwang Yeon Cho and Won-Chun Oh

- [SCI] Synthesis of mesoporous SiO₂/Cu₂O-graphene nanocomposites and their highly efficient photocatalytic performance for dye pollutants, RSC Advances, 2017, 7, 29284–29294, The Royal Society of Chemistry
637. Yonrapach Areerob and Won-Chun Oh
- [SCOPUS] Enhanced Photocatalytic Properties of Visible Light Responsive La/TiO₂-Graphene Composites for the Removal of Rhodamin B in Water, Journal of the Korean Chemical Society, 2017, Vol. 61, No. 4, pp. .
638. Biswas Md Rokon Ud Dowla, Ju Yong Cho, Won Kweon Jang, Won-Chun Oh
- [SCIE] Synthesis of BiVO₄-GO-PTFE nanocomposite photocatalysts for high efficient visible-light-induced photocatalytic performance for dyes, J Mater Sci: Mater Electron, Accepted: 19 June 2017, Online Ed.
639. Asghar Ali and Won-Chun Oh
- [SCOPUS] Photocatalytic Performance of CoS₂-Graphene-TiO₂ Ternary Composites for Reactive Black B (RBB) Degradation, Journal of the Korean Ceramic Society, Vol. 54, No. 4, pp. 308~313, 2017.
640. Yonrapach Areerob, Kwang-Youn Cho, Won-Chun Oh
- [SCI] Microwave assisted synthesis of graphene-Bi₈La₁₀O₂₇ nanocomposite as efficient catalytic counter electrode for dye sensitized solar cell, New Journal of Chemistry, 2017, DOI: 10.1039/C7NJ01782K, Jul. 27 Published, Online ED.
641. Shu Ye, Dinh Cung Tien Nguyen, Ick-Jun Kim, Sun-hye Yang, Won-Chun Oh
- [SCI] High performance for electric double-layer capacitors based on CNT-CG composite synthesized as additive material by CVD method, Journal of Industrial and Engineering Chemistry 54 (2017) 428–433.
642. Dinh Cung Tien Nguyen, Woo-Sik Kim, Kwang-Youn Cho and Won-Chun Oh
- Synthesis of frost-like CuO combined graphene-TiO₂ for high photocatalytic performance, CARBON2017, 23-28 July, p.417, 2017 Melbourne, Australia
643. Yonrapach Areerob, Won-Chun Oh
- Microwave assisted synthesis of graphene-Bi₈La₁₀O₂₇-Zeolite nanocomposite with efficient photocatalytic activity towards organic dye degradation, CARBON2017, 23-28 July, p.349, 2017 Melbourne, Australia
644. Won-Chun Oh

Progressive Fabrication of Graphene and their Potential Applications, CARBON2017, 23-28 July, p.386, 2017 Melbourne, Australia

645. Yonrapach Areerob, Dinh Cung Tien Nguyen, Biswas Md Rokon Dowla, Asghar Ali and Won-Chun Oh

[SCOPUS] Aluminum Effect as Additive Material in Expanded Graphite/Send Composite for High Thermal Conductivity, 한국재료학회지, Korean J. Mater. Res. Vol. 27, No. 8 (2017) 422-430

646. DINH CUNG TIEN NGUYEN, BISWAS MD ROKON DOWLA, YONRAPACH AREEROD, ASGHAR ALI and WON-CHUN OH

[SCOPUS] Copper metallic powder effect for expanded graphite plate for thermal conductivity, Asian Journal of Chemistry, 29, 10, 2017, 2154-2158.

647. Dinh Cung Tien Nguyen, Won-Chun Oh

[SCI] Ternary self-assembly method of mesoporous silica and Cu₂O combined graphene composite by nonionic surfactant and photocatalytic degradation of cationic-anionic dye pollutants, Separation and Purification Technology 190 (2018) 77-89.

648. Asghar Ali and Won-Chun Oh

[SCI] A simple ultrasono-synthetic route of PbSe-graphene-TiO₂ ternary composites to improve the photocatalytic reduction of CO₂, FULLERENES, NANOTUBES AND CARBON NANOSTRUCTURES, 2017, VOL. 25, NO. 8, 449-458, <https://doi.org/10.1080/1536383X.2017.1308354>

649. Asghar Ali and Won-Chun Oh

[SCOPUS] Preparation of Ag₂Se-Graphene-TiO₂ Nanocomposite and its Photocatalytic Degradation (Rh B), Journal of the Korean Ceramic Society, Vol. 54, No. 5, pp. 388-394, 2017.

650. Yonrapach Areerob, Ju Yong Cho, Won Kweon Jang, Won-Chun Oh

[SCI] Enhanced sonocatalytic degradation of organic dyes from aqueous solutions by novel synthesis of mesoporous Fe₃O₄-graphene/ZnO@SiO₂ nanocomposites, Ultrasonics - Sonochemistry 41 (2018) 267-278.

651. Asghar Ali and Won-Chun Oh

[SCI] Synthesis of Ag₂Se-graphene-TiO₂ nanocomposite and analysis of photocatalytic activity of CO₂ reduction to CH₃OH, Bulletin of Materials Science, Online published, 16 November, 2017

651-1. Dinh Cung Tien Nguyen, and Won-Chun Oh

Ternary self-assembly method of mesoporous silica and Cu₂O combined graphene composite by nonionic surfactant and photocatalytic degradation of cationic-anionic dye pollutants, ICMMA2017, Nov. 16-19, Anhui Zhenjiu University, China

651-2. Yonrapach Areerob, Won-Chun Oh

Microwave assisted synthesis of graphene-Bi₈La₁₀O₂₇ nanocomposite as efficient catalytic counter electrode for dye-sensitized solar cell, ICMMA2017, Nov. 16-19, Anhui Zhenjiu University, China

651-3. Hee Kook Park, Beom Hyun Lee, Won-Chun Oh, Chang Sung Lim

Preparation and characterization of microwave sol-gel derived highly efficient upconversion photoluminescence particles of ternary metal molybdates for biomedical applications, ICMMA2017, Nov. 16-19, Anhui Zhenjiu University, China

651-4. Biswas Md Rokon Ud Dowla, Chang-Sung Lim, Won-Chun Oh

Synthesis of BiVO₄-GO-PTFEnanocomposite photocatalysts for high efficient visible-light-induced photocatalytic performance for dyes, ICMMA2017, Nov. 16-19, Anhui Zhenjiu University, China

651-5. Won-Chun Oh

[Opening address] ICMMA2017, Nov. 16-19, Anhui Zhenjiu University, China

652. Yonrapach Areerob, Kwang–Youn Cho, Won–Chun Oh

[SCI] Strategy to improve photovoltaic performance of DSSC sensitized by using novel nanostructured La doped TiO₂-graphene electrodes, Journal of Materials Science: Materials in Electronics <https://doi.org/10.1007/s10854-017-8278-3>, 25 November 2017.

653. Asghar Ali, Won-Chun Oh

[SCOPUS] Enhanced visible light photocatalytic activity of Lead selenide/Graphene/ Titanium dioxide nanocomposite synthesized via ultra-sonication technique, Asian Journal of Chemistry, 30.1 34-38, 2018.

653-1. Won-Chun Oh

[Invited speaker] Facile Synthesis of Graphene from Graphene Oxide for Efficient Dye-Sensitized and H₂ Evolution, 3rd International Conference on Global Trends in Pure and Applied Chemical Sciences (ICGTCS2017), SRM University, Asian Publication Corporation, NewDelhi, Indian, DEC. 8~9, 2017.

653-2, Won-Chun Oh

[Opening address] 3rd International Conference on Global Trends in Pure and Applied Chemical Sciences (ICGTCS2017), SRM University, Asian Publication Corporation, NewDelhi, Indian, DEC. 8~9, 2017.

653-3, Won-Chun Oh

[Session Chairman] 3rd International Conference on Global Trends in Pure and Applied Chemical Sciences (ICGTCS2017), SRM University, Asian Publication Corporation, NewDelhi, Indian, DEC. 8~9, 2017.

654. Dinh Cung Tien Nguyen, Kwang Youn Cho & Won-Chun Oh

[SCI] A facile route to synthesize ternary Cu₂O quantum dot/graphene-TiO₂ nanocomposites with an improved photocatalytic effect, Fullerenes, Nanotubes and Carbon Nanostructures, 25:12, 684-690, DOI: 10.1080/1536383X.2017.1344648

655. Dinh Cung Tien Nguyen, Kwang Youn Cho, and Won-Chun Oh

[SCOPUS] New Synthesis of the Ternary Type Bi₂WO₆-GO-TiO₂ Nanocomposites by the Hydrothermal Method for the Improvement of the Photocatalytic Effect, Applied Chemical Engineering, Vol. 28, No. 6, December 2017, 705-713.

656. Md Rokon Ud Dowla Biswas, Asghar Ali, Kwang Youn Cho, Won-Chun Oh

[SCI] Novel synthesis of WSe₂-Graphene-TiO₂ ternary nanocomposite via ultrasonic technics for high photocatalytic reduction of CO₂ into CH₃OH, Ultrasonics - Sonochemistry 42 (2018) 738–746

656-1. Won-Chun Oh

[Invited speaker] Facile Synthesis of Graphene from Graphene Oxide for efficient potential application, The first international conference on advanced functional materials and application (ICAFMA-2018), January 6-7, 2018, Yancheng Institute of Technology.

657. DINH CUNG TIEN NGUYEN, DONG-HYEN OH and WON-CHUN OH

[SCOPUS] Immobilization of Bi₂O₃ particles on activated carbon fiber and its photodegradation performance for pollutant dyes, Asian Journal of chemistry, 30, 3, 491-498, 2018.

658. Shu Ye, Won-Chun Oh

[SCI] NOVEL CVD GROWTH OF LARGE AREA GRAPHENE AND CNTS/GRAPHENE COMPOSITE AT LOW TEMPERATURE AND ITS POTENTIAL APPLICATION, 27, 2/2018, 1289-1298, Fresenius Environmental Bulletin.

659. Biswas Md Rokon Ud Dowla and Won-Chun Oh

[Int'l] A inclusive review of Graphene-Polymer nanocomposites: research position and developments, 8(1), June 2017, pp.39-60, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

660. Yonrapach Areerob, Won-Chun Oh

[Int'l] Advancements in the Development of Graphene Nanocomposites for Dye-sensitized Solar Cells (DSSC) Applications, 8(1), June 2017, pp.61-101, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

661. Dinh Cung Tien Nguyen and Won-Chun Oh

[Int'l] A Self-assembly Method to Synthesis the Binary/ternary Type –graphene based Composites and its High Application in Photocatalytic Performance: A Review, 8(1), June 2017, pp.103-121, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

662. Asghar Ali, Won-Chun Oh

[Int'l] Review of material design various graphene based semiconductors photocatalysis for CO₂ reduction, 8(1), June 2017, pp.21-38, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

663. Yonrapach Areerob, Won-Chun Oh

[Int'l] Recent improvements of Graphene nanocomposites for Dye-sensitized Solar Cells (DSSC) applications, 8(2), December 2017, pp. 123-150, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

664. Anurag Prachis Bodra and Won-Chun Oh

[Int'l] Review of Chemical Vapour Deposition (CVD) techniques, 8(2), December 2017, pp. 151-162, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

665. Dinh Cung Tien Nguyen, Chang Sung Lim and Won-Chun Oh

[Int'l] Mesoporous titanium dioxide and silica materials and its high application in photocatalytic performance: A review, 8(2), December 2017, pp. 163-197, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

666. Biswas Md Rokon Ud Dowla and Won-Chun Oh

[Int'l] A Review On New Developments in 3D Graphene Based Polymer Composites, 8(2), December 2017, pp. 199-230, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

667. Won-Chun Oh, Hee Kook Park, Beom Hyun Lee and Chang Sung Lim

[Int'l] Preparation and Spectroscopic Properties of Ho³⁺/Yb³⁺/Tm³⁺Tri-doped NaY(MoO₄)₂Phosphors for White LED Applications, 8(2), December 2017, pp. 231-240, JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE

668. Asghar Ali, Won-Chun Oh

[SCOPUS] Enhanced visible light photocatalytic activity of Lead selenide/Graphene/ Titanium dioxide nanocomposite synthesized via ultra-sonication technique, Asian Journal of chemistry, 30, 1, 34-38, 2018.

669. Yonrapach Areerob, Ick-Jun Kim, Sun-hye Yang, Kwang Chul Roh & Won-Chun Oh

[SCI] New EDLC designed with CNT-AC synthesized via CVD method as additional material for the improved cell resistance, Fullerenes, Nanotubes and Carbon Nanostructures, ISSN: 1536-383X (Print) 1536-4046 (Online) Journal homepage: <http://www.tandfonline.com/loi/lfnn20>

670. Md Rokon Ud Dowla Biswas, Won-Chun Oh

[SCI] Synthesis of BiVO₄-GO-PVDF nanocomposite: An excellent, newly designed material for high photocatalytic activity towards organic dye degradation by tuning band gap energies, Solid State Sciences 80 (2018) 22~30

671. Asghar Ali, Md Rokon Ud Dowla Biswas, · Won-Chun Oh

[SCI] Novel and simple process for the photocatalytic reduction of CO₂ with ternary Bi₂O₃-graphene-ZnO nanocomposite, Journal of Materials Science: Materials in Electronics, <https://doi.org/10.1007/s10854-018-9073-5>, Online Ed., 16 April (2018).

672. Dinh Cung Tien Nguyen, Jung-Hun Woo, Kwang Youn Cho, Chong-Hun Jung, Won-Chun Oh

[SCI] Highly efficient visible light driven photocatalytic activities of the LaCuS₂-graphene composite-decorated ordered mesoporous silica, Separation and Purification Technology 205 (2018) 11-21

672-1. Won-Chun Oh

[Invited speaker] Facile Synthesis of Graphene from Different Methods for Efficient Potential Application, 7th International Conference on Environmental Technology and Knowledge Transfer, June 12-13, Hefei, China

672-2. Won-Chun Oh

[Session Chairman] 7th International Conference on Environmental Technology and Knowledge Transfer, June 12-13, Hefei, China

673. Asghar Ali, Md Rokon Dowla Biswas, Yonrapach Areerob, Dinh Cung Tien Nguyen, and Won-Chun Oh

[SCOPUS] Synthesis and Characterization of a Ternary Nanocomposite Based on CdSe Decorated Graphene-TiO₂ and its Application in the Quantitative Analysis of Alcohol with Reduction of CO₂, Journal of the Korean Ceramic Society, Vol. 55, No. 4, pp. 1~11, 2018. <https://doi.org/10.4191/kcers.2018.55.4.03>

674. Dinh Cung Tien Nguyen, Kwang Youn Cho, Chong-Hun Jung, Won-Chun Oh

[SCI] Photocatalytic activities of contaminants by Bi₂WO₆-graphene composites decorated with mesoporous silica, Journal of Alloys and Compounds 766 (2018) 477-487, IF = 3.779

674-1. Won-Chun Oh

[Plenary lecture] Nanotechnology of Graphene based Material for Multifunctional Applications, 7th International Conference on Materials Science (ICMS2018), 20-22 June 2018 | Erenhot, China

674-2 Won-Chun Oh

[Invited lecture] Facile synthesis of graphene from different methods for efficient potential application, PERCH-CIC Congress X: 2018 International Congress for Innovation in Chemistry during July 4-7, 2018, at Jomtien Palm Beach Hotel & Resort, Pattaya, Chonburi, Thailand.

674-3 Won-Chun Oh

[Session Chairman] PERCH-CIC Congress X: 2018 International Congress for Innovation in Chemistry during July 4-7, 2018, at Jomtien Palm Beach Hotel & Resort, Pattaya, Chonburi, Thailand.

675. Dinh Cung Tien Nguyen, Lei Zhu, Qinfang Zhang, Kwang Youn Cho, Won-Chun Oh

[SCI] A new synergetic mesoporous silica combined to CdSe-graphene nanocomposite for dye degradation and hydrogen evolution in visible light, Materials Research Bulletin 107 (2018) 14–27.

676. Yonrapach Areerob, Dinh Cung Tien Nguyen, Biswas Md Rokon Dowla, Hyuk Kim, Je-Woo Cha, and Won-Chun Oh

[SCOPUS] Synthesis and Characterization of Calcium Derivative Combined with High-Surface-Area Activated Carbon Composites for Fine Toxic Gas Removal, Journal of the Korean Ceramic Society, Online July 19, 2018, <https://doi.org/10.4191/kcers.2018.55.5.02>

676-1 Won-Chun Oh

[Invited lecture] Nanochemistry and Nanomaterials : Basic theory and examples, 18 July, Gadjah Mada University in Indonesia.

676-2 Won-Chun Oh

[Invited lecture] Synthesis of Graphene and Mesoporous Silica Combined Graphene Nanocomposites with Different Methods for Efficient Potential Application, 2018 International Symposium on Silsesquioxanes-Based Functional Materials (SFM2018), 2018, 12~13 August, Shandong University, China

677. Lei Zhu, Dinh Cung Tien Nguyen, Jung-Hun Woo, Qinfang Zhang, Kwang Youn Cho & Won-Chun Oh

[SCI] An eco-friendly synthesized mesoporous-silica particle combined with WSe₂-graphene-TiO₂ by self-assembled method for photocatalytic dye decomposition and hydrogen production, *Scientific Reports (2018) 8:12759* DOI:10.1038/s41598-018-31188-w Online ED.

678. Dinh Cung Tien Nguyen, Chang Sung Lim and Won-Chun Oh

[Int'l] A review: A Combination of Mesoporous Graphene, Titanium Dioxide, and Silica Materials with Other Semiconductors as High Performance Photocatalyst, *JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE* 9(1), June 2018, pp. 1-32

679. Won-Chun Oh, Ji Soon Park, Eung Gyun Kim, Chang Sung Lim

[Int'l] White Emissions of Ho³⁺/Yb³⁺/Tm³⁺ Tri-Doped NaGd(MoO₄)₂ Phosphors and Their Upconversion Photoluminescence Properties, *JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE*, 9(1), June 2018, pp. 39-48

680. Biswas Md Rokon Ud Dowla & Won-Chun Oh

[Int'l] A Review On Sensing and Functional Applications of Graphene-polymer nanocomposites, *JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE*, 9(1), June 2018, pp. 49-113

681. *Yonrapach Areerob and Won-Chun Oh*

[Int'l] An alternative Graphene composites and Perovskite material as a counter electrode Dye-sensitized Solar Cells for renewable energy, *JOURNAL OF MULTIFUNCTIONAL MATERIALS & PHOTOSCIENCE*, 9(1), June 2018, pp. 115-138.

682. Naveed Alam, Arif Ullah, Yaqoob Khan, Won Chun Oh, Kefayat Ullah

[SCI] Fabrication and enhancement in photoconductive response of Fe₂O₃/graphene nanocomposites as anode material, Journal of Materials Science: Materials in Electronics, Published online: 21 August 2018.

[2019 연구실적]

683. Dinh Cung Tien Nguyen, ShuYe, Won-Chun Oh

[SCOPUS] Preparation and enhanced photocatalytic hydrogen evolution activity of graphene-based Pd and TiO₂ composites synthesized by CVD method, Asian Journal of Chemistry; Vol. 30, No. 10 (2018), 2180-2186, <https://doi.org/10.14233/ajchem.2018.21361>

684. Yonrapach Areerob, Dinh Cung Tien Nguyen, Biswas Md Rokon Dowla, Hyuk Kim, Je-Woo Cha, and Won-Chun Oh

[SCOPUS] Synthesis and Characterization of Calcium Derivative Combined with High-Surface-Area Activated Carbon Composites for Fine Toxic Gas Removal, Journal of the Korean Ceramic Society, Vol. 55, No. 5, pp. 473–479, 2018.

685. Feng-Jun Zhang, Xian-Yang Sun, Xuan Li, Dan Zhang, Wen-Jie Xie, Jin Liu and Won-Chun Oh

[SCOPUS] Study on Water Resistance of Environmentally Friendly Magnesium Oxychloride Cement for Waste Wood Solidification, Journal of the Korean Ceramic Society, Vol. 55, No. 5, pp. 446–451, 2018.

686. Yonrapach Areerob, Kwang Youn Cho, Chong-Hun Jung, Won-Chun Oh

[SCI] Synergetic effect of La₂CdSnTiO₄-WSe₂ perovskite structured nanoparticles on graphene oxide for high efficiency of dye sensitized solar cells, Journal of Alloys and Compounds 775 (2019) 690~697.

687. Yonrapach Areerob, Ju Yong Cho, Won Kweon Jang, Kwang Youn Cho, Won-Chun Oh

[SCI] An alternative of NiCoSe doped graphene hybrid La₆W₂O₁₅ for renewable energy conversion used in dye-sensitized solar cells, Solid State Ionics 327 (2018) 99–109

688. Asghar Ali, Dinh Cung Tien Nguyen, Kwang-Youn Cho & Won-Chun Oh

[SCI] A simple ultrasonic-synthetic route of Cu₂Se graphene-TiO₂ ternary composites for carbon dioxide conversion processes, FULLERENES, NANOTUBES AND CARBON NANOSTRUCTURES, <https://doi.org/10.1080/1536383X.2018.1504211>, ISSN: 1536-383X (Print) 1536-4046 (Online)

■ RESEARCH REPORTS

- 2009, 6.1-2011, 5.30 (Secondary battery and preparation of CNC and its application)
- 2010, 6.1- 2011, 5.30 (The development of plant for metal treated activated carbon with decreasing of energy and chemical reagents)
- 2011, 6.1- 2012, 5.30 (Preparation of activated carbon/photocatalyst composites electrode and their dye decomposition)
- 2012. 10. 01. ~ 2013. 03. 31 (The graphite purification technology for highly purified graphite sheet)
- 2013 11. 1 ~ 2014 10. 31 (The graphite purification and preparation of expanded graphite for LED heat sink)
- 2012. 6. 1. ~ 2017. 5. 31. (Development of 5kW Zn-air battery for EV and 3.3V-1,000F pouch type high-power supercapacitor)
- 2014 11. 1 ~ 2015 10. 31 (The development of Zeolite/activated carbon composite for increasing of ignition temperature)

Etc. 27 reports

■ PATENTS

- Hydrogen generation apparatus, Kr. Patent No. 10-0748349
- Manufacturing method of spherical form activated carbon, 2009-0062707
- Method of preparing Spherical active carbon for adsorptive removal of Iodide and Hydrogen sulfide and superior active carbon prepared therefrom, 10-1176587
- The preparation method of nanofluid containing of metal treated carbon nanoparticle, 10-2011-0037444
- A fumigator for using on a water closet, 2008-0013097
- The development of spraying method of chemical reagents with doping of activated carbon and its manufacturing method and preparation method, 10-2013-0018713
- LED PLATE USING EXPANDED GRAPHITE AND MANUFACTURING METHOD, 10-2015-0016589

Etc. 23 patents

■ BOOK PUBLICATION

Handbook of Photocatalysts: Preparation, Structure and Applications - Nova Publisher (USA)
p153-190 (2009) Won-Chun Oh et al.

Etc. 5 books

■ AWARDS and OTHERS

12. 2016, 2 December, Award of Appreciation, The 10th International Conference on Multi-functional Materials and Application, Khonkan University, Thailand.
11. 2015, 30 April, Best Paper Award, The Korean Society of Industrial and Engineering Chemistry, Korea.
10. 2014, 28 November, Award of Appreciation, The 8th International Conference on Multi-functional Materials and Application, Korea.
9. 2012, 14 May, Best Paper Award, The Korean Society of Industrial and Engineering Chemistry, Korea.
8. 2011, 25 November, Award of Appreciation, The 5th China-Korea International Conference on Multi-functional Materials and Application, China.
7. 2011, 12 May, Best Paper Award, The Korean Society of Industrial and Engineering Chemistry, Korea.
6. 2010, 11 November, Academic Paper Award, The Society of Korean Journal of Material Bulletin, Korea.
5. 2009, 19 October, YangSong Prize Award, Korean Ceramic Society, Korea.
4. 2007-2008, World Top 100 Scientist, IBC (International Biographic Center) in Oxford, UK.
3. 2008-2014, Who's Who in the America, Marquis Who's Who
2. 2007-2014, Who's Who in the World, Marquis Who's Who
1. 2006-2014, Who's Who Science & Engineering, Marquis Who's Who