

WEI-NING WANG

Virginia Commonwealth University (VCU)
Department of Mechanical and Nuclear Engineering,
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<https://sites.google.com/site/wnwangyz/>
<https://wnwang.wordpress.com/>

EDUCATION

Ph.D. in <i>Chemistry and Chemical Engineering</i> , Hiroshima University, Japan	2003–2006
M.E. in <i>Materials Science and Engineering</i> , Nanjing University of Technology, China	1999–2002
B.E. in <i>Polymer Science & Engineering</i> , Nanjing Univ. of Chemical Technology, China	1995–1999

RESEARCH STATEMENT

My research covers a wide range of topics in nanoscience and nanotechnology, with a major focus on aerosol process development and nanomaterials synthesis, aiming to solve fundamental issues of nucleation, crystal growth, and self-assembly of nanoparticles via microdroplets in gas phase, towards addressing critical challenges in the sectors of energy, environment and human health.

PROFESSIONAL EXPERIENCE

Assistant Professor	August 2014–present
Department of Mechanical and Nuclear Engineering, Virginia Commonwealth University	
Research Assistant Professor & Nano Research Facility Lab Manager	2013–2014
Department of Energy, Environmental & Chemical Engineering, Washington University in St. Louis	
Postdoctoral Research Associate	May 2009–December 2012
Aerosol and Air Quality Research Lab, Washington University in St. Louis (<i>with Prof. Pratim Biswas</i>)	
Research Associate (Assistant Professor)	October 2007–May 2009
Department of Chemical Engineering, Hiroshima University, Japan	
JSPS Postdoctoral Fellow	April 2006–September 2007
Japan Society for the Promotion of Science—Hiroshima University (<i>with Prof. Kikuo Okuyama</i>)	
Graduate Research Assistant	
Dept. of Chemical Engineering, Hiroshima University, Japan	March 2003–March 2006
Dept. Polymer Science and Engineering, Nanjing University of Technology	Sept. 1999–June 2002

AWARDS AND HONORS (INCLUDING STUDENTS' AWARD)

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| • Outstanding Graduate Research Award , College of Engineering, VCU
(for graduate student, Xiang He) | 2018 |
| • Outstanding Reviewer Awards for <i>Nanotechnology</i> and <i>Journal of Physics D</i> | 2017, 2018 |
| • ACS-PRF Doctoral New Investigator Award | 2016 |
| • VCU Presidential Research Quest Fund Award | 2016 |
| • Ralph E. Powe Junior Faculty Enhancement Award , VCU nominee (1/2) | 2016 |
| • Jeffress Trust Award , VCU nominee (1/4) | 2016, 2018 |
| • Highly Cited Papers (2) , Top 1% in Chemistry, Essential Science Indicators SM | 2015-2018 |
| • Certificate of Excellence in Reviewing for <i>Advanced Powder Technology</i> | 2014, 2017 |

- **Outstanding Paper Award of 2012**, *Journal of Chemical Engineering of Japan* 2013
- **TOP 25 Most Cited Paper** in *Appl. Catal. B.* in 2010 and 2011 2012
- **JSPS Postdoctoral Fellowship** (Competitive fellowship awarded to highly qualified young foreign researchers; Japan Society for the Promotion of Science) 2006–2007
- **The National Science & Technology Award Nominated by the Ministry of Education of China (Second Prize)** (ID: 2004-050) 2005
- **Thermal Fluid and Materials Fellowship**, Hiroshima University 2003–2006
- **A Graduate Student Exempted from Entrance Examination** 1999
(The **ONLY** student in the Dept. Polymer Science & Engineering, Nanjing Tech)
- **Graduation with Honors (TOP 3%)**, Nanjing Univ. of Chemical Technology 1999

TEACHING

- Lecturer** 2014–present
- Heat Transfer (EGMN302); Heating, Ventilating, and Air Conditioning (EGMN491), Advanced Characterization of Materials (EGMN609), Vertically Integrated Projects (VIP, ENGR497), VCU
- Guest Lecturer** 2009–2014
- Aerosol Science and Engineering (EECE/ChE/ME 518, graduate level), Washington University

PH.D. STUDENTS/VISITING SCHOLARS

Xiang He	Ph.D. candidate	2015–present
Zan Zhu	Ph.D. candidate	2017–present
Dawei Wang	Postdoctoral Researcher	2016–present
Asep Bayu Dani Nandiyanto	Fulbright Scholar	2018–present

PH.D. DISSERTATION COMMITTEES

Students	Department/University	Advisor(s)	Graduation year
Yi Jiang	Washington University	Pratim Biswas/John Fortner	2016
Yao Nie	Washington University	Pratim Biswas/John Fortner	2018
Qiang Wang	MNE, VCU	Daren Chen	2016
Naveen Palapati	MNE, VCU	Arunkumar Subramanian	2016
Yomna Abdelmoaty	MNE, VCU	Hani El-Kaderi	2017
Di Liu	MNE, VCU	Daren Chen	2018
Corell H. Moore	MNE, VCU	Puru Jena/Jim McLeskey	2018 expected
Caleb Massey	MNE, VCU	Gokul Vasudevamurthy	TBD
Mahjabin Maksud	MNE, VCU	Arunkumar Subramanian	TBD
Ahmed Abdelkader	Chemistry, VCU	Hani El-Kaderi	TBD

UNDERGRADUATES AND K-12 STUDENTS

VIP Program	Johnny Bui, Kayla Logan, Jethrine Mugumya, John Riley, Xinbei Yi, Ryan Compton, Imani Bynum, Omar Alam, Sofia Duarte, Harini Mody, Nicholas Hatstrup
VCU-VMI Program	Grayson Larus (2016), Al-Jhon Barrogo (2017)
DURI Program	Kayla Logan, VCU Chemical Engineering, 2017
DERI Program	Mason Oakes (Glen Allen High, 2016), Stephanie Gernentz (Trinity Episcopal, 2017), Grant Hutchins (Maggie Walker, 2017), Zoe Manring and Saran Rathore (2018)
RMEP Program	Oluwatomi Olusina (Homeshool, 2016), Rachel Silver (Manchester High, 2016), Christopher Woodley (Manchester High, 2017)
Volunteers/Summer interns	Cheng Hsuan Wu (2016), Charles Yang (2016-2017), Arnaud Debraine, Ahmed Alqhtani, Vu Nguyen, Congyi Tang (2017)

PROFESSIONAL SERVICES, DEVELOPMENT & OUTREACH ACTIVITIES

Services to Department, School, and University

- Member, Newport News Shipbuilding Scholarship Committee 2015–present
- Member, Ph.D. Qualifying Exam Committee 2016–2017

Editor and Reviewer

- Advisory Panel member, *Nanotechnology* (IF = 3.440) 2017–present
- Editorial Board member, *Nanomaterials and Nanotechnology* (IF = 1.536) 2015–present
- Panelist for the US Environmental Protection Agency (EPA) 2018
- Panelist for the National Science Foundation (NSF) 2017
- Reviewer for American Chemical Society Petroleum Research Fund (ACS-PRF) 2017, 2018
- Reviewer for the Virginia Tobacco Indemnification Commission 2015
- Reviewer for the Kentucky Science and Engineering Foundation 2015, 2017
- Reviewer for the National Research Council of Romania 2011
- Reviewer of **60+** leading journals for **290+** papers in chemical engineering, energy & environment, materials science, and nanotechnology. 2004–present

Conference Session Chair/Working Group Chair

- Session Chair, Nano-Micro Conference 2017, Shanghai, China June 2017
- Technical program committee member and Special symposium organizer, 35th Annual Conference, American Association for Aerosol Research (AAAR) Oct. 2016
- Chair and vice-chair, Combustion & Material Synthesis Working Group, AAAR 2014–2016
- Session Chair, AAAR Annual Conferences/2014 International Aerosol Conference 2012–2016

Professional Society Memberships

- Member, American Association for Aerosol Research (AAAR) 2008–present
- Senior Member, American Institute of Chemical Engineers (AIChE) 2010–present
- Member, American Chemical Society (ACS) 2013–present
- Member, Association of Environmental Engineering & Science Professors 2016–present

Outreach Activities

- Judge, AIChE Global Undergraduate Student Video Competition 2017
- Judge, Metro Richmond STEM Fair, Richmond, Virginia 2016–present
- Faculty Advisor, Richmond Minorities in Engineering Partnership (RMEP) 2016–present
- Faculty Advisor, Dean's Early Research Initiative (DERI), VCU 2016–present
- Faculty Advisor, Dean's Undergraduate Research Initiative (DURI), VCU 2017–present
- Faculty Instructor, Discovery Program, Mary and Frances Youth Center 2017–present

GRANTS RECEIVED

- PI, National Science Foundation (NSF), CMMI 2017
- PI, Commonwealth Center for Advanced Manufacturing (CCAM) 2017
- PI, ACS Petroleum Research Fund (PRF), Doctoral New Investigator (DNI) 2016
- PI, VCU Presidential Research Quest (PeRQ) Fund 2016
- PI, Altria Endowment for VIP projects 2016

Instrument proposals approved (3)

- PI, Argonne National Laboratory, access to SAXS/WAXS and TAS 2017-2019
- PI, Oak Ridge National Laboratory, rapid access to HRTEM/SAED/EELS 2017

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES (86 in total, in descending chronological order)

Article Citation Summary as of May 17, 2018 based on the three major databases:

Web of Science (WoS) = 2688, H-Index = 29; Research ID: B-3005-2008
Scopus = 2876, H-index = 29; Scopus Author ID: 35320776800
Google Scholar = 3706, H-index = 35

*Corresponding author; Ph.D. students and postdoc fellow under Dr. Wang's supervision are underlined.

1. D. Wang, B. Zhu, X. He, Z. Zhu, G. Hutchins[#], P. Xu, and **W.-N. Wang***, "Iron Oxide Nanowire-Based Filter for Inactivation of Airborne Bacteria", *Environmental Science: Nano*, **5**(5): 1096-1106 (2018) (IF = 6.047; [#]High school student; Highlighted on Inside Front Cover)
2. X. He, V. Nguyen[†], Z. Jiang, D. Wang, Z. Zhu, and **W.-N. Wang***, "Highly-Oriented One-Dimensional MOF-Semiconductor Nanoarrays for Efficient Photodegradation of Antibiotics", *Catalysis Science & Technology*, **8**: 2117-2123 (2018) (IF = 5.773; [†]Undergraduate student)
3. D. Wang, S. E. Gilliland III, X. Yi[†], K. Logan[†], D. R. Heitger, H. R. Lucas, and **W.-N. Wang***, "Iron Mesh-Based Metal Organic Framework Filter for Efficient Arsenic Removal", *Environmental Science & Technology*, **52**(7): 4275-4284 (2018) (IF = 6.198; [†]Undergraduate students)
4. X. He and **W.-N. Wang***, "MOF-based Ternary Nanocomposites for Better CO₂ Photoreduction: Roles of Heterojunction and Coordinatively Unsaturated Metal Sites", *Journal of Materials Chemistry A*, **6**: 932-940 (2018). (IF = 8.867)
5. D. Wang, Z. Li, J. Zhou, H. Fang, X. He, P. Jena, J.-B. Zeng*, and **W.-N. Wang***, "Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles", *Nano-Micro Letters*, **10**(1): 4 (2018) (IF = 4.849)
6. X. He, Z. Gan, S. Fisenko, D. Wang, H.M. El-Kaderi, and **W.-N. Wang***, "Rapid Formation of Metal-Organic Frameworks (MOFs)-based Nanocomposites in Microdroplets and Their Applications for CO₂ Photoreduction", *ACS Applied Materials & Interfaces*, **9**(11): 9688-9698 (2017) (IF = 7.504; Total WoS cites = **6**)
7. X. He, C. Yang[#], D. Wang, S. E. Gilliland III, D. R. Chen, and **W.-N. Wang***, "Facile Synthesis of ZnO@ZIF Core-shell Nanofibers: Crystal Growth and Gas Adsorption", *CrystEngComm*, **19**: 2445-2450 (2017) (Highlighted on Back Cover; [#]High school student)
8. X. Wang, H. Wang, H. Jing, **W.-N. Wang**, W. Cui, B. J. Williams, and P. Biswas, "Formation of Nitrogen-Containing Organic Aerosol during Combustion of High Sulfur Content Coal", *Energy & Fuels*, **31**(12): 14161-14168 (2017)
9. X. Wang, S. Li, **W.-N. Wang**, and P. Biswas, "Mercury Oxidation during Coal Combustion by Injection of Vanadium Pentoxide (V₂O₅)", *International Journal of Coal Geology*, **170**: 54-59 (2017)
10. **W.-N. Wang*** and X. He, "Aerosol Processing of Crumpled Graphene Oxide-based Nanocomposites for Drug Delivery", *Current Pharmaceutical Design*, **22** (17): 2491-2500 (2016) (Invited Review Article)
11. Y. Nie, **W.-N. Wang**, Y. Jiang, J. Fortner, and P. Biswas, "Crumpled Reduced Graphene Oxide–Amine–Titanium Dioxide Nanocomposites for Simultaneous Carbon Dioxide Adsorption and Photoreduction", *Catalysis Science & Technology*, **6**(16): 6187-6196 (2016) (IF = 5.773; Highlighted on Back Cover)
12. B. B. Karakocak, R. Raliya, J. T. Davis, S. Chavalmale, **W.-N. Wang**, N. Ravi, and P. Biswas, "Biocompatibility of Gold Nanoparticles in Retinal Pigment Epithelial Cell Line", *Toxicology In Vitro*, **37**: 61-69 (2016)
13. X. Wang, H. Jing, B. Dhungel, **W.-N. Wang**, B. M. Kumfer, R. L. Axelbaum, and P. Biswas, "Characterization of Organic and Black Carbon Aerosol Formation during Coal Combustion: An

Experimental Study in a 1 MW Pilot Scale Coal Combustor”, *Fuel*, **180**: 653-658 (2016)

14. **W.-N. Wang**, F. Wu, Y. Myung, D. M. Niedzwiedzki, H. S. Im, J. Park, P. Banerjee, and P. Biswas, “Surface Engineered CuO Nanowires with ZnO Islands for CO₂ Photoreduction”, *ACS Applied Materials & Interfaces*, **7** (10): 5685-5692 (2015) (IF = 7.504; Total WoS cites = **31**)

❖ Featured in Washington University Newsroom: “[Researchers find less expensive way to convert carbon dioxide](#)”, by Beth Miller, April 6, 2015

❖ Highlighted in the ACS Select Virtual Issue: [Recent Advances in Atomic Layer Deposition](#).

15. R. Raliya, R. Nair, S. Chavalmane, **W.-N. Wang**, and P. Biswas, “Mechanistic Evaluation of Translocation and Physiological Impact of Titanium Dioxide and Zinc Oxide Nanoparticles on the Tomato (*Solanum lycopersicum* L.) Plant”, *Metalomics*, **7**(12): 1584-1594 (2015) (Total WoS cites = **42**)

❖ Featured in Washington University SEAS Newsroom: “[Tomatoes get boost in growth, antioxidants from nano-sized nutrients](#)”, and by [National Science Foundation](#) as well, November 5, 2015

16. Y. Jiang, **W.-N. Wang**, D. Liu, Y. Nie, W. Li, J. Wu, F. Zhang, P. Biswas, and J. D. Fortner, “Engineered Crumpled Graphene Oxide Nanocomposite Membrane Assemblies for Advanced Water Treatment Processes”, *Environmental Science & Technology*, **49**(11): 6846-6854 (2015) (IF = 6.198; Total WoS cites = **37**)

17. Y. Wang, P. Liu, J. Fang, **W.-N. Wang**, and P. Biswas, “Kinetics of Sub 2 nm TiO₂ Particle Formation in an Aerosol Reactor during Thermal Decomposition of Titanium Tetraisopropoxide”, *Journal of Nanoparticle Research*, **17**: 147 (2015)

18. H. Jing, X. Wang, **W.-N. Wang**, and P. Biswas, “Elemental Mercury Oxidation in an Electrostatic Precipitator Enhanced with *In Situ* Soft X-ray Irradiation”, *Journal of the Air & Waste Management Association*, **65** (4): 455-465 (2015)

19. A. Leavey, Y. Fu, M. Sha, A. Kutta, C. Lu, **W.-N. Wang**, B. Brake, Y. Chen, and P. Biswas, “Air Quality Metrics and Wireless Technology to Maximize the Energy Efficiency of HVAC in a Working Auditorium”, *Building and Environment*, **85**: 287-297 (2015)

20. **W.-N. Wang*** and P. Biswas, “Aerosol Processing of Advanced Functional Materials for Energy and Environmental Applications”, *Eurozoru Kenkyu (Journal of Aerosol Research)*, **29** (2): 77-87 (2014) (Feature Article; Highlighted on Front Cover)

21. T. Ogi, H. Iwasaki, K. Aishima, F. Iskandar, **W.-N. Wang**, K. Takimiya, and K. Okuyama, “Transient Nature of Graphene Quantum Dots Formation via a Hydrothermal Reaction”, *RSC Advances*, **4** (99): 55709-55715 (2014)

22. R. Balgis, T. Ogi, **W.-N. Wang**, G. Anikumar, S. Sago, and K. Okuyama, “Aerosol Synthesis of Self-Organized Nanostructured Hollow and Porous Carbon Particles using a Dual Polymer System”, *Langmuir*, **30** (38): 11257-11262 (2014)

23. T. Ogi, H. Iwasaki, A. B. D. Nandiyanto, F. Iskandar, **W.-N. Wang**, and K. Okuyama, “Direct White Light Emission from a Rare-Earth-Free Aluminum-Boron-Carbon-Oxynitride Phosphor”, *Journal of Materials Chemistry C*, **2** (21): 4297-4303 (2014) (IF = 5.256)

Publications Prior to VCU

24. **W.-N. Wang**, J. Soulis, Y. J. Yang, and P. Biswas, “Comparison of CO₂ Photoreduction Systems: A Review”, *Aerosol and Air Quality Research*, **14** (2): 533-549 (2014) (Invited Review Article; Total WoS cites = **40**)

25. **W.-N. Wang**, Y. Jiang, J. D. Fortner, and P. Biswas, “Nanostructured Graphene-Titanium Dioxide Composites Synthesized by a Single Aerosol Process for Photoreduction of Carbon Dioxide”, *Environmental Engineering Science*, **31** (7): 428-434 (2014)

26. Y. Jiang, **W.-N. Wang**, P. Biswas, and J. D. Fortner, “Facile Synthesis and Characterization of Ternary Crumpled Graphene-TiO₂-Magnetite Nanocomposites for Advanced Water Treatment”, *ACS Applied Materials & Interfaces*, **6**: 11766-11774 (2014) (IF = 7.504; Total WoS cites = **45**)

27. J. Fang, Y. Wang, M. Attoui, T. S. Chadha, J. R. Ray, **W.-N. Wang**, Y.-S. Jun, and P. Biswas, "Measurement of Sub 2 nm Clusters of Pristine and Composite Metal Oxides During Nanomaterials Synthesis in Flame Aerosol Reactors", *Analytical Chemistry*, **86** (15): 7523-7529 (2014) (IF = 6.320)
28. Y. Wang, J. Fang, M. Attoui, T. S. Chadha, **W.-N. Wang**, and P. Biswas, "Application of Half Mini DMA for sub 2 nm Particle Size Distribution Measurement in an Electrospray and a Flame Aerosol Reactor", *Journal of Aerosol Science*, **71**: 52-64 (2014)
29. **W.-N. Wang**, J. C. Tarafdar, and P. Biswas, "Nanoparticle Synthesis and Delivery by an Aerosol Route for Watermelon Plant Foliar Uptake", *Journal of Nanoparticle Research*, **15**(1): 1417 (2013) (Total WoS cites = **28**)
30. P. Namkhang, W.-J. An, **W.-N. Wang**, K. S. Rane, P. Kongkachuichay, and P. Biswas, "Low Temperature Synthesis of N-doped TiO₂ Nanocatalysts for Photodegradation of Methyl Orange", *Journal of Nanoscience and Nanotechnology*, **13** (3): 2376-2381 (2013)
31. T. Ogi, A. B. D. Nandiyantio, K. Okino, F. Iskandar, **W.-N. Wang**, E. Tanabe, and K. Okuyama, "Towards Better Phosphor Design: Effect of SiO₂ Nanoparticles on Photoluminescence Enhancement of YAG:Ce", *ECS Journal of Solid State Science and Technology*, **2** (5): R91-R95 (2013)
32. A. Tarafdar, R. Raliya, **W.-N. Wang**, P. Biswas, and J. C. Tarafdar, "Green Synthesis of TiO₂ Nanoparticle Using Aspergillus Tubingensis", *Advanced Science, Engineering and Medicine*, **5** (9): 943-949 (2013)
33. X. Wang, S. M. Daukoru, S. Torkamani, **W.-N. Wang**, and P. Biswas, "Role of Exhaust Gas Recycle on Submicrometer Particle Formation during Oxy-Coal Combustion", *Proceedings of the Combustion Institute*, **34** (2): 3479-3487 (2013)
34. **W.-N. Wang**, Y. Jiang, and P. Biswas, "Evaporation-Induced Crumpling of Graphene Oxide Nanosheets in Aerosolized Droplets: Confinement Force Relationship", *Journal of Physical Chemistry Letters*, **3** (21): 3228-3233 (2012) (IF = 9.353; Total WoS cites = **55**)
35. **W.-N. Wang**, W.-J. An, B. Ramalingam, S. Mukherjee, D. M. Niedzwiedzki, S. Gangopadhyay, and P. Biswas, "Size and Structure Matter: Enhanced CO₂ Photoreduction Efficiency by Size-resolved Ultrafine Pt Nanoarticles on TiO₂ Single Crystals", *Journal of the American Chemical Society*, **134**(27): 11276-11281 (2012) (IF = 13.858; Total WoS cites = **318**)

- ❖ Featured in JACS Spotlights: "[Making Something Useful from Emitted Greenhouse Gases](#)", *Journal of the American Chemical Society*, **134** (31): 12879–12880 (2012)
 - ❖ Highly Cited Paper, Top 1% in Chemistry (Essential Science IndicatorsSM, Thomson Reuters)
36. W.-J. An[†], **W.-N. Wang**[†], B. Ramalingam, S. Mukherjee, B. Daubayev, S. Gangopadhyay, and P. Biswas, "Enhanced Water Photolysis with Pt Metal Nanoparticles on Single Crystal TiO₂ Surfaces", *Langmuir*, **28** (19): 7528-7534 (2012) ([†]*Equal contribution*; Total WoS cites = **35**)
37. T. Ogi, A. B. D. Nandiyanto, **W.-N. Wang**, F. Iskandar, and K. Okuyama, "Direct Synthesis of Spherical YAG:Ce Phosphor from Precursor Solution Containing Polymer and Urea", *Chemical Engineering Journal*, **210**: 461-466 (2012)
38. T. Ogi, F. Iskandar, A. B. D. Nandiyanto, **W.-N. Wang**, and K. Okuyama, "Influence of Polymer Decomposition Temperature on the Formation of Rare-earth Free Boron Carbon Oxynitride Phosphors", *Journal of Chemical Engineering of Japan*, **45**(12): 995-1000 (2012)

- ❖ This paper was selected to be awarded the JCEJ "[Outstanding Paper Award of 2012](#)"!
39. C. Grigoriu, **W.-N. Wang**, D. Martin, and P. Biswas, "Capture of Particles from an Iron and Steel Smelter with a Pulse-Energized Electrostatic Precipitator", *Aerosol & Air Quality Research*, **12** (5): 673-682 (2012)
40. T. Ogi, Y. Kaihatsu, Y. Kusakibaru, **W.-N. Wang**, M. Munir, and K. Okuyama, "Preparation and Characterization of Boron Oxide-based Red-emitting Phosphors using Eu, Al and Ca Additives", *Materials Chemistry and Physics*, **133** (1): 392-397 (2012)

41. Y. Morimoto, M. Hirohashi, A. Ogami, T. Oyabu, T. Myojo, M. Todoroki, M. Yamamoto, M. Hashiba, Y. Mizuguchi, B.-W. Lee, E. Kuroda, M. Shimada, **W.-N. Wang**, K. Yamamoto, K. Fujita, S. Endoh, K. Uchida, N. Kobayashi, K. Mizuno, M. Inada, H. Tao, T. Nakazato, J. Nakanishi and I. Tanaka, "Pulmonary Toxicity of Well-dispersed Multi-wall Carbon Nanotubes Following Inhalation and Intratracheal Instillation", *Nanotoxicology*, **6**(6): 587-599 (2012) (IF = 6.428; Total WoS cites = **36**)
42. Y. Morimoto, M. Hirohashi, A. Ogami, T. Oyabu, T. Myojo, M. Hashiba, Y. Mizuguchi, T. Kambara, B.-W. Lee, E. Kuroda, M. Shimada, **W.-N. Wang**, K. Mizuno, K. Yamamoto, K. Fujita, N. Kobayashi, J. Nakanishi, and I. Tanaka, "Pulmonary Toxicity of Well-dispersed Single-wall Carbon Nanotubes after Inhalation", *Nanotoxicology*, **6** (7): 766-775 (2012) (IF = 6.428)
43. **W.-N. Wang**, J. Park, and P. Biswas, "Rapid Synthesis of Nanostructured Cu-TiO₂-SiO₂ Composites for CO₂ Photoreduction by Evaporation Driven Self-assembly", *Catalysis Science & Technology*, **1** (4): 593-600 (2011) (IF = 5.773)

- ❖ Highly cited article (Total WoS cites = **68**; Top 10% among 198 articles in 2011)
 - ❖ Hot Article, featured in Inside Front Cover: [Splitting carbon dioxide with light](#).
44. **W.-N. Wang**, T. Ogi, Y. Kaihatsu, F. Iskandar, and K. Okuyama, "Novel Rare-Earth-Free Tunable-Color-Emitting BCNO Phosphors", *Journal of Materials Chemistry*, **21** (14): 5183-5189 (2011) (**Invited Highlight Article**) (IF = 6.626; Total WoS cites = **72**)
45. P. Biswas, **W.-N. Wang**, and W.-J. An, "The Energy-Environment Nexus: Aerosol Science and Technology Enabling Solutions", *Frontiers of Environmental Science & Engineering in China*, **5** (3): 299-312 (2011) (Invited Feature Article)
46. M. Sahu, B. Wu, L. Zhu, C. Jacobson, **W.-N. Wang**, K. Jones, Y. Goyal, Y. Tang, and P. Biswas, "Role of Dopant Concentration, Crystal Phase and Particle Size on Microbial Inactivation of Cu-doped TiO₂ Nanoparticles", *Nanotechnology*, **22** (41): 415704 (2011)
47. T. Oyabu, T. Myojo, Y. Morimoto, A. Ogami, M. Hirohashi, M. Yamamoto, M. Todoroki, Y. Mizuguchi, M. Hashiba, B. W. Lee, M. Shimada, **W.-N. Wang**, K. Uchida, S. Endoh, N. Kobayashi, K. Yamamoto, K. Fujita, K. Mizuno, M. Inada, H. Tao, T. Nakazato, J. Nakanishi, and I. Tanaka, "Biopersistence of Inhaled MWCNT in Rat Lungs in a 4-week Well-characterized Exposure", *Inhalation Toxicology*, **23** (13): 784-791 (2011)
48. A. Ogami, K. Yamamoto, Y. Morimoto, K. Fujita, M. Hirohashi, T. Oyabu, T. Myojo, K. Nishi, C. Kadoya, M. Todoroki, M. Yamamoto, M. Murakami, M. Shimada, **W.-N. Wang**, N. Shinohara, S. Endoh, K. Uchida, J. Nakanishi, and I. Tanaka, "Pathological Features of Rat Lung Following Inhalation and Intratracheal Instillation of C₆₀ Fullerene", *Inhalation Toxicology*, **23** (7): 407-416 (2011)
49. Y. Li, **W.-N. Wang**, Z. Zhan, M.-H. Woo, C.-Y. Wu, and P. Biswas, "Photocatalytic Reduction of CO₂ with H₂O on Mesoporous Silica Supported Cu/TiO₂ Catalysts", *Applied Catalysis B: Environmental*, **100** (1-2): 386-392 (2010) (IF = 9.446; Total WoS cites = **234**)

- ❖ Highly Cited Paper, Top 1% in Chemistry field (Essential Science IndicatorsSM, Thomson Reuters)
 - ❖ TOP 25 Most Cited Paper in *Appl. Catal. B* in 2010 and 2011 (No. 4)
 - ❖ ScienceDirect TOP25 Hottest Article in *Appl. Catal. B* (2011 full year, No. 8)
50. Z. Zhan, **W.-N. Wang**, L. Zhu, W.-J. An, and P. Biswas, "Flame Aerosol Reactor Synthesis of Nanostructured SnO₂ Thin Films: High Gas-sensing Properties by Control of Morphology", *Sensors and Actuators B: Chemical*, **150** (2): 609-615 (2010)
51. Y. Kaihatsu, **W.-N. Wang**, F. Iskandar, T. Ogi, and K. Okuyama, "Effect of the Carbon Source on the Luminescence Properties of Boron Carbon Oxynitride (BCNO) Phosphor Particles", *Journal of the Electrochemical Society*, **157** (10): J329-J333 (2010)
52. M. Shimada, **W.-N. Wang**, and K. Okuyama, "Synthesis of Gallium Nitride Nanoparticles by Microwave Plasma-Enhanced CVD", *Chemical Vapor Deposition*, **16** (4-6): 151-156 (2010)
53. Y. Morimoto, M. Hirohashi, A. Ogami, T. Oyabu, T. Myojo, K. Nishi, C. Kadoya, M. Todoroki, M. Yamamoto, M. Murakami, M. Shimada, **W.-N. Wang**, K. Yamamoto, K. Fujita, S. Endoh, K. Uchida, N. Shinohara, J. Nakanishi, and I. Tanaka, "Inflammogenic Effect of Well-characterized Fullerenes

in Inhalation and Intratracheal Instillation Studies”, *Particle and Fibre Toxicology*, **7**: 4 (2010) (IF = 8.577; Total WoS cites = **40**)

54. Y. Kaihatsu, **W.-N. Wang**, F. Iskandar, and K. Okuyama, “Controlled Synthesis of Carbon based Alumina Nanophosphors with Tunable Blue to Green Luminescence”, *Materials Letters*, **64** (7): 836-839 (2010)
55. D. Hidayat, A. Purwanto, **W.-N. Wang**, and K. Okuyama, “Preparation of Size-controlled Tungsten Oxide Nanoparticles and Evaluation of Their Adsorption Performance”, *Materials Research Bulletin*, **45** (2): 165-173 (2010)
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1. **W.-N. Wang***, "Strategies to Design and Synthesize MOFs-based Nanocomposites for Efficient Gas Detection and Conversion", The Center for Nanophase Materials Sciences (CNMS) at Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, December 8, 2017
2. **W.-N. Wang***, "Facile Development of Nanostructured Photocatalysts for CO₂ Capture and Conversion", *The Nano-Micro Conference 2017*, Shanghai, China, June 19-23, 2017
3. **W.-N. Wang***, "Indoor Air Quality: What You Don't Know May Harm You", *2017 VJAS (Virginia Junior Academy of Science) Annual Research Symposium and 76th Annual Meeting*, Richmond, VA, May 16, 2017
4. **W.-N. Wang***, "Development Strategies for Efficient Photocatalysts for CO₂ Photoreduction: Aerosol Science & Technology Enabling Solutions", *Physics Colloquia*, Department of Physics, Virginia Commonwealth University, Richmond, November 21, 2014
5. **W.-N. Wang***, "Particle Synthesis via Aerosol Processes – Concepts, Strategies, and Visions", *Minisymposium on Particle Synthesis*, Friedrich-Alexander University of Erlangen-Nuremberg, Erlangen, Germany, July 8-9, 2008
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CONFERENCE PRESENTATIONS (86 IN TOTAL)

1. X. He and **W.-N. Wang***, "MOFs-based Hybrid Nanocomposites for Efficient Gas Capture and Conversion: A Charge Transfer Study," *10th International Aerosol Conference (IAC2018)*, St. Louis, MO, September 2-7, 2018
2. Y. Khodyko, S. P. Fisenko, and **W.-N. Wang***, "Femtoliter Droplet Cloud Evaporation in an Aerosol Reactor," *10th International Aerosol Conference (IAC2018)*, St. Louis, MO, September 2-7, 2018
3. H. Tu*, **W.-N. Wang**, and D.-R. Chen, "Aerosol-assistant Synthesis of Sodium Tungsten Bronze Oxide for UV and IR Shielding," *10th International Aerosol Conference (IAC2018)*, St. Louis, MO, September 2-7, 2018
4. K. Logan[†], D. Wang, and **W.-N. Wang**, "An Iron Mesh-based Metal Organic Framework Filter for Efficient Arsenic Removal," *2017 Undergraduate Research Symposium*, VCU School of Engineering, Richmond, November 21, 2017. ([†]Undergraduate student)
5. Y. Nie*, L.-Y. Lin, **W.-N. Wang**, and P. Biswas, "Role of Nitrogen Addition to Reduced Graphene Oxide-TiO₂ Nanocomposites in Enhancing CO₂ Photoreduction," *2017 AIChE Annual Meeting*, Minneapolis, MN, October 29-November 3, 2017
6. X. He*, D. Wang, and **W.-N. Wang***, "Facile Development of MOFs-based Nanocomposites for

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7. **W.-N. Wang***, X. He, and Z. Gan, “Aerosol Processing of MOF-Based Nanocomposites for Carbon Dioxide Photoreduction,” 2016 AIChE Annual Meeting, San Francisco, CA, November 16, 2016
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 12. H. Jing*, X. Wang, **W.-N. Wang**, and P. Biswas, “Elemental Mercury Oxidation in an Electrostatic Precipitator with in-situ Soft X-rays”, 2014 AIChE Annual Meeting, Atlanta, November 16-21, 2014
 13. Y. Jiang*, **W.-N. Wang**, D. Liu, Y. Nie, W. Li, J. Wu, F. Zhang, P. Biswas, and J.D. Fortner, “Engineered Crumpled Graphene Oxide Nanocomposite Membrane Assemblies for Advanced Water Treatment Processes”, 2014 Mid-America Environmental Engineering Conference, Missouri University of Science and Technology, Rolla, MO, November 15, 2014
 14. Y. Nie*, **W.-N. Wang**, Y. Jiang, J. Fortner, and P. Biswas, “Aminated Reduced Graphene Oxide-Titanium Dioxide Nanocomposites (AGOTi) for Carbon Dioxide Capture and Photoreduction”, AAAR 33rd Annual Conference, Orlando, FL, October 21-24, 2014
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 33. **W.-N. Wang***, "Aerosol Processing of Advanced Functional Materials for Energy and Environmental Applications", 2011 AIChE Annual Meeting, Minneapolis, October 16-21, 2011
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