Curriculum Vitae

For research scientist track only.

Candidate must use the template provided by ADAA office. The template is available for download at: http://adaa.engin.umich.edu/research-faculty/prs-promotions/, or fill in contents below.

First Name Last Name

Position
Department
University of Michigan, College of Engineering
Business Address
City, State, Zip
Office Phone: 222-222-2222
Cell Phone: 222-222-2222
myname@umich.edu

Education

(Degrees, dates, schools, title of doctoral dissertation, and name of dissertation advisor(s) **in reverse chronological order with the most recent degree first**)

Appointments

Positions at U of M *(titles and dates)*

Positions at other institutions or organizations *(titles and dates)*

1.

Honors and Awards

International

1.

National

1.

Institutional

1.

Teaching

Ph.D. committee activity

Chaired/Co-Chair *(Name of student, year or anticipated year of graduation, dissertation title, chair or co-chair, student current position. Please include all current and formerly supervised students.) Suggested format:*

1. Jaehun Jung, 2018, Directed Intramolecular Heavy Atom Effects toward Vibration- insensitive Metal-free Organic Phosphors, Chair
   Student current position: Assistant Professor, University of Colorado

Member (Other Ph.D. membership)

1. Kangwon Lee, Ph.D., 2008, Functionalized Conjugated Polymers for Signal Amplifying Biosensors and Sensor Arrays, Member
   Student current position: Assistant Professor, University of Colorado

M.S. students advised/co-advised *(Name of student, year or anticipated year of graduation, project title, student current position, chair or co-chair. Use same format as above.)*

1. Alicia Smith, MS, 2012, Macromolecular Science and Engineering, Co-Advised, University of Michigan, Unknown
   Student current position: Assistant Professor, University of Colorado

Undergraduate major projects directed *(Include project title, number of students involved, and year.)*

1. Project Title: Utilizing polymer spacer layers to limit recombination in P3HT:PCBM organic solar cells, 2011-2015, Number of Students: 1, Sponsor: SURE Summer Research Program

Mentoring activities involving post-doctoral scholars

1. Trained and mentored, Dr. Hyong-Jun Kim (2004 - 2008, Postdoctoral Fellow, MSE) Currently Associate Professor at Kongju National University, 01/2004 - 01/2008

Short courses and workshops taught *(Indicate course, location or institution, date, enrollment, nature of participation.)*

1.

Outreach directly related to teaching

1.

Other (e.g., Scholarly work in education)

1.

Research

Research programs underway *(List up to only three, with a brief description of each.*

1.

Past grants and contracts *(Include sponsor, project title, dates, amount, names of principal investigators and/or co-principal investigators, and candidate's share.* ***Grants and contracts must be sequentially numbered by start date, in reverse chronological order; i.e., newest item first.)*** *Suggested format:*

1. *LMS Co., Ltd.* , X16-PAF0247, "Transparent and UV-curable Resins having High Thermal Stability," 06/2011 - 05/2014, Total: $182,616, Jinsang Kim (PI). Candidate's Share: $182,616.

Current grants and contracts *(Include sponsor, project title, dates, amount, names of principal investigators and/or co-principal investigators, and candidate's share.) Suggested format:*

*** All grants and contracts are subject to verification by the casebook committee and department.**

1. *NSF, DMREF*, X16-PAF0247, "Simulation-Based Predictive Design of All-organic Phosphorescent Ligh- Emitting Molecular Materials," 10/2014 - 09/2017, Total: $997,787, John Kieffer (PI), Jinsang Kim (Co-PI). Candidate's Share: $402,225.

New research directions *(List at most three, with a brief description of each. Suggested format:*

1. **Title**
   High Thermoelectric and Thermal conductivity from Functional Polymers Polymers have become important active materials for various device applications. While optical properties of polymers have been extensively studied and utilized in optoelectronic applications, the thermal conductivity of polymers has been overlooked because thermal conductivity of polymers is small and falls within a rather narrow range (0.1 – 0.5 Wm-1K-1). Recently we hypothesized that by incorporating strong interpolymer interactions between polymer chains we can largely enhance the connectivity in bulk polymer films and increase the resulting thermal conductivity. We designed a series of such polymers having strong interpolymer hydrogen bonding.

Pending grants and contracts *(List proposals that are pending. Include sponsor, project title, amount, names of principal investigators and/or co-principal investigators, candidate's share, and submission date.) Suggested format:*

1. *Texas A&M in Qatar*, "Directed Self-assembly and Alignment of Conjugated Polymers for High Performance Plastic Electronics," 09/2015, Total: $314,661, J Kim (PI). Candidate's Share: $314,661.

Publications and Scholarly Presentations

NOTES: Publications in each category below must be sequentially numbered in reverse chronological order; i.e., newest items first.

Publication format may vary by discipline but should be consistent in the casebook.

- Underline the names of co-authors who (at the time of authorship) were graduate student(s) under your supervision
- Undergraduate co-authors under your supervision should be single underlined and noted by an asterisk * after their name.

Journal and conference names should be spelled out (i.e. not abbreviated).

Full articles in refereed journals, transactions, or archives *(Full articles in refereed journals, transactions, or archives that have appeared or have been accepted only.)*

1. Onas Bolton, Dongwook Lee, Jaehun Jung, **Jinsang Kim**. "Tuning the Photophysical Properties of Metal-Free Room Temperature Organic Phosphors via Composition." *Chemistry of Materials* 2014, Impact Factor: 8.238, Accepted

Shorter communications, letters, notes, or briefs in refereed publications

1. Onas Bolton, Dongwook Lee, Jaehun Jung, **Jinsang Kim**. "Tuning the Photophysical Properties of Metal-Free Room Temperature Organic Phosphors via Composition." *Chemistry of Materials* 2014, Impact Factor: 8.238, Accepted

Refereed conference or symposium proceedings papers *(If conference papers are strictly reviewed and are of journal quality, please indicate.)*

1.

Refereed conference summaries or abstracts

1.

Abstracts in non-refereed conference proceedings

1.

Books

1.

Chapters in books

1.

Book reviews

1.

Government, university, or industrial reports (non-refereed)

1.

Publications in popular press/magazines

1.

Other submitted publications

1.

Invited presentations *(Invited keynote presentations at conferences or symposia, or seminar series at peer institutions.* ***List up to 10 most significant, providing venue and date.****)*

1.

Technology Transfer and Entrepreneurship

US and international patents awarded *(inventors, title, number, date issued)*

1.

Provisional patents and patents pending *(inventors, title, date submitted)*

1.

Invention disclosures submitted *(inventors, title, date submitted)*

1.

Licensing and technology transfer

1.

Startups and entrepreneurial activities

1.

Other major technology transfer activities *(provide whatever information you find appropriate)*

1.

Industry interactions *(consulting arrangements, board memberships, etc.)*

1.

Outreach directly related to research

1.

Other

1.

Service

Major committee assignments in the Department, College, and/or University

Department *(Name of committee, dates, member or chair status)*

1.

College *(Name of committee, dates, member or chair status)*

1.

University *(Name of committee, dates, member or chair status)*

1.

Administrative duties at U of M

1.

Service to government or professional organizations, and service on review board/study panels
(Name of committee, chair or member, editorships etc.; dates)

1.

Contribution to diversity, equity and inclusion

1.

Outreach that is not part of service, teaching, or entrepreneurship

1.

Mentoring activities involving junior faculty members

1.

Other

1.

Summary of contributions to teaching, research, service, and major impact

Recommend one (1) page each on teaching, research, and service, for a total of 3-4 pages. May use 2 pages to emphasize contributions in one particular area only; e.g., teaching. Total length should not exceed 4 pages.

The research summary may also include contributions to tech transfer and entrepreneurship as well as broader impact-focused activities if applicable.
The service summary may include contributions to diversity and climate, if applicable.