Michael Ford, PhD

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Educational Background

University of California, Santa Barbara **2013-2018**
Materials Department
Doctor of Philosophy in Materials

University of California, Davis **2010-2012**
College of Letters and Science
Bachelor of Science in Chemistry
Cum Laude

Modesto Junior College **2008-2010**
University Transfer

Research Background

Lawrence Livermore National Lab **2020-Current**
Materials Science Division, High Performance Materials
Postdoctoral Research Associate

- Additive manufacturing of functional elastomers and plastic scintillator synthesis/development

Carnegie Mellon University **2018-2020**
Department of Mechanical Engineering, Principal Investigator: Professor Carmel Majidi
Postdoctoral Research Associate

- Synthesis and characterization of composites for soft robotics and stretchable sensors

University of California, Santa Barbara **2013-2018**
Materials Department, Principal Investigator: Professor Guillermo Bazan
Graduate Student Researcher

- Morphological and electrical characterization of multicomponent organic field-effect transistors.

Oak Ridge National Laboratory & Argonne National Laboratory **2016**
National School on Neutron and X-ray Scattering, Scientific Director: Suzanne G. E. te Velthuis
School Participant

- Hands-on research experience at neutron and x-ray facilities in addition to daily lectures on scattering techniques.

Technical University of Munich **2015**
Physics Department, Principal Investigator: Professor Peter Mueller-Buschbaum
International Research Fellow

- Microbeam x-ray scattering of aligned conjugated polymers.

University of California, Davis **2011-2012**
Department of Chemistry, Principal Investigator: Professor Delmar Larsen
Undergraduate Student Researcher

- Ultrafast dynamics of materials with applications to photovoltaic cells.

Teaching Experience

Carnegie Mellon University **2019**
Gelfand Center Saturday Classes, Supervisor: Pamela Piskurich

- Designed and taught wearable computers courses to middle school students

University of California, Santa Barbara **2018**
Science & Engineering Research Academy, Supervisor: Lina Kim
SERA Course Instructor

- Designed and taught course on research in polymer science and engineering.

University of California, Santa Barbara **2017**
Science & Engineering Research Academy, Supervisor: Lina Kim
SERA Teaching Assistant

- Taught lecture, assisted in labs for class on properties of light.

University of California, Santa Barbara **2015**
Materials Department, Supervisor: Chris Van de Walle
Materials 188 Teaching Assistant

- Prepared and taught lectures on materials in energy technologies.

University of California, Santa Barbara **2015**
Department of Chemistry and Biochemistry, Supervisor: Petra Van Koppen
Chem 1AL Teaching Assistant

- Supervised classroom labs, prepared discussion, and designed quizzes for general chemistry.

University of California, Santa Barbara **2014**
Center for Science and Engineering Partnerships, Supervisor: Wendy Ibsen
School for Scientific Thought Course Instructor

- Designed an original course on polymers and organic electronics. Five two-hour sessions on Saturdays were spent teaching to a class of 16 high school students from the local community.

University of California, Santa Barbara **2014**
Materials Department, Supervisor: Professor Jim Speck
Materials 101 Teaching Assistant

- Drafted lesson plans, homework questions, and exam problems while teaching a discussion section for Materials 101.

University of California, Davis **2011**
Mathematics and Science Teaching Program, Supervisor: Dr. David Webb
Learning Assistant

- Provided individual assistance to students in an undergraduate physics class

Modesto Junior College **2010**
California Teach Science and Mathematics Initiative, Supervisor: Professor Catherine Green
Teaching Assistant
- Assisted students in high school math and science classes

Outreach Activities

Abilities Champions **2020-Current**
Lawrence Livermore National Laboratory Employee Resource Group
Abilities Champion
- Assisted with intern recruitment and attended workshops advocating for hiring and retaining employees with physical, psychological, developmental, and neurocognitive differences.

STEM Mentor Program **2020-2021**
Dublin High School
Mentor
- Mentored high school student on career development with focus on careers in STEM

Gelfand Center Outreach **2019-2020**
Carnegie Mellon University
Soft Machines Laboratory Chair
- Coordinated outreach at Carnegie Science Center and various community events

Summer Engineering Experience for Girls **2019**
Carnegie Mellon University
Guest lecturer
- Designed and taught an activity on energy for wearable computers to middle school girls

ScienceLine **2014-2018**
University of California, Santa Barbara
ScienceLine Scientist
- Answered general science questions for K-12 students while encouraging scientific inquiry.

NanoDays **2014-2018**
Nanoscale Informal Science Education
NanoDays Volunteer
- Engaged museum visitors and taught about emerging nanotechnologies.

Ask-A-Scientist **2014-2016**
University of California, Santa Barbara
Media Relations Officer
- Engaged with the local community at various events to talk about science in a public space.

Center for Science and Engineering Partnerships **2013-2018**
University of California, Santa Barbara
FUSE Leader
- Participated in science education outreach through demonstrations at local junior high schools.

Explorit Science Center **2013**
Davis, CA,
Explorit Volunteer

- Assisted with science demonstrations for visiting families. Assisted in data analysis of visitor trends.

Service Activities

ACS General Session Presider **2021**
ACS Fall 2021

- Introduced speakers and facilitated discussion during a Polymeric Materials: Science and Engineering Division session.

Interview Panelist **2020-current**
Lawrence Livermore National Laboratory

- Served on hiring committees to interview and evaluate potential candidates to join the polymer additive manufacturing team at LLNL.

Peer Reviewer **2018-Current**
Various journals

- Invited by journal editors to review manuscripts in my area of expertise. Reviews were completed for various journals including *Advanced Materials, ACS Applied Materials & Interfaces, ACS Macro Letters, Scientific Reports, iScience, Advanced Materials Technologies, Chemical Engineering Journal, Polymers,* and *Micromachines*.

Work Experience

Ampac Fine Chemicals **2012-2013**
Rancho Cordova, CA, Supervisor: Dean Britz
Associate Chemist

- Instrumental analysis of active pharmaceutical ingredients. Analysis by HPLC, UPLC, GC, FTIR, and NMR.

Awards and Grants

MRSEC Rising Stars in Soft and Biological Matter Honorarium **2021**

Graduate Opportunity Mentor Fellowship **2017**

APS Ovshinsky/DMP Travel Award Honorable Mention **2017**

MRL-Dow Travel Fellowship **2016**

International Center for Materials Research Fellowship **2015**

PG&E Careers in Energy Winner **2013**

Outstanding Chemistry Graduate Award **2013**

UC Davis Deans' Honors List **2012**

McNair Research Grant **2012**

American Chemical Society Undergraduate Award in Analytical Chemistry **2012**

UC Davis McNair Scholar Award **2011**

CalTeach Award **2010**

Professional Development

Future Faculty Program **2019**
Carnegie Mellon University
- Interactive online activities and teaching workshops on course planning; student learning outcomes; assessments; and other topics.

Summer Teaching Institute for Associates **2018**
University of California, Santa Barbara
- Interactive online activities and teaching workshops on course planning; student learning outcomes; assessments; and other topics.

Instructional Development Teaching Workshops **2014-2018**
University of California, Santa Barbara
- Teaching workshops that focused on teaching quantitative subjects, how to manage lab settings, how to deal with diverse learners, and a variety of other topics.

Forum on Diversity and Research Collaboration **2012**
University of California, Davis
- Week-long intensive research preparation program focusing on diversity and inclusion.

McNair Scholars Program **2011-2012**
University of California, Davis
- Federally funded post-baccalaureate achievement program for low-income, underrepresented students pursuing doctoral study. Development programs include research seminars and independent research projects.

Conferences, Workshops, Seminars, & Other Media

"Physical intelligence using functional soft matter" UChicago Rising Stars in Soft and Biological Matter Symposium, University of Chicago (virtual), **2021**. (Invited)

"Direct ink writing of transparent and tailorable elastomers by refractive index matching of silica and siloxanes" ACS Fall Meeting, Atlanta (virtual), **2021**.

"Optimization Of Plastic Scintillators With Pulse-shape Discrimination Capabilities" INMM & ESARDA Joint Annual Meeting (virtual), **2021**.

"Intelligent Soft Matter using Gallium-based Liquid Metals" Early Career Lecture Series, North Carolina State University (virtual), **2020**. (Invited)

"A multifunctional shape morphing elastomer with liquid metal inclusions" MRS Fall Meeting, Boston, **2019**.

"Soft robots of the future may depend on new materials that conduct electricity, sense damage and self-heal" The Conversation, **2019**.

"Active actuation of a liquid crystal elastomer composite with liquid metal inclusions" International Liquid Crystal Elastomer Conference, Eindhoven University of Technology, **2019**.

"Unipolar Transport from Ambipolar Conjugated Polymers using Solution-Processed Additives," 13th International Symposium on Functional π-Electron Systems, Hong Kong University of Science and Technology, **2017.**

"Carrier-Selective Traps to Control Ambipolar Transport in Conjugated Polymers," APS March, New Orleans, **2017.**

"High Mobility OFETs from Majority Insulator Blend Solutions," SCUT-UCSB Workshop, South China University of Technology, **2016.**

"Semiconductor-Insulator Blends for High Mobility OFETs," CPOS-University of Tokyo Symposium, University of California, Santa Barbara, **2015.**

"Morphological Characterization of a High Open-Circuit Voltage, Narrow Band Gap Semiconducting Polymer," 12th International Symposium on Functional π-Electron Systems, University of Washington, **2015.**

"Excited State Dynamics of Poly(3-hexylthiophene) J-aggregate Nanofibers," IvyPlus Symposium, University of Pennsylvania, **2012.**

"Ultrafast Dynamics of P3HT," Ronald E. McNair California Scholars Symposium, University of California, Berkeley, **2012**.

"Determination of Multiple Exciton Generation in Germanium Quantum Dots," Pacific Northwest McNair/EIP Research Conference, University of Washington, **2012**.

Patents and Publications

* = equal contribution

1. **Ford, M. J.** Loeb, C. K., Pérez Pérez, L. X., Gammon, S., Guzorek, S., Gemeda, H. B., Golobic, M., Honnell, A., Erspamer, J., Duoss, E. B., Wilson, T. S., Lenhardt, J. M., *Adv. Mater. Tech.* (Accepted).

2. **Ford, M. J.**, Ohm, Y., Chin, K., Majidi, C. Composites of functional polymers: toward physical intelligence in flexible and soft materials. *J. Mater. Res.* (Accepted). Invited for special issue: *Early Career Scholars in Materials Science 2022*

3. Ohm, Y., Pan, C., **Ford, M. J.**, Huang, X., Liao, X., Majidi, C. An electrically conductive silver–polyacrylamide–alginate hydrogel composite for soft electronics. *Nature. Elect.* (2021).

4. Ambulo, C. P., **Ford, M. J.**, Searles, K., Majidi, C., Ware, C. H. 4D Printable Liquid Metal-Liquid Crystal Elastomer Composites. *ACS Appl. Mater. Inter.* (2020).

5. **Ford, M. J.**, Patel, D. K., Bergbreiter, S., Majidi, C. Controlled assembly of liquid metal inclusions as a general approach for multifunctional composites. *Adv. Mater*. (2020).

6. Pan, C., Liu, D., **Ford, M. J.**, Majidi, C. Ultrastretchable, Wearable Triboelectric Nanogenerator Based on Sedimented Liquid Metal Elastomer Composite. *Soft Matter.* (2020).

7. Zolfaghari, N., Khandagale, P., **Ford, M. J.**, Dayal, K., Majidi, C. Network topologies dictate electromechanical coupling in liquid metal–elastomer composites. *Soft Matter.* (2020).

8. Vollbrecht, J., Lee, J., Ko, S.-J., Brus, V. V., Karki, A., Le, W., Seifrid, M., **Ford, M. J.**, Cho, K., Bazan, G. C., Nguyen, T.-Q. Design of narrow bandgap non-fullerene acceptors for photovoltaic applications and investigation of non-geminate recombination dynamics. *J. Mater. Chem. C.* (2020).

9. **Ford, M. J.**, Suzuki, M., Bridges, C. R., Bustillo, K. C., Seifrid, M., Wang, M., Yamada, H., Nguyen, T.-Q., Bazan, G. C. Robust Unipolar Electron Conduction using an Ambipolar Polymer Semiconductor with Solution-Processable Blends. *Chem. Mater.* (2020).

10. Huang, X., **Ford, M. J.**, Patterson, Z. J., Zarepoor, M., Pan, C., Majidi, C. Shape memory materials for electrically-powered soft machines. *J. Mater. Chem. B.* (2020).

11. Hellebrekers, T., Chang, N., Chin, K., **Ford, M. J.**, Kroemer, O., Majidi, C. Soft Magnetic Tactile Skin for Continuous Force and Location Estimation Using Neural Networks. *IEEE Rob. And Auto. Lett.* (2020).

12. Kent, T. A., **Ford, M. J.**, Markvicka, E. J., Majidi, C. Soft actuators using liquid crystal elastomers with encapsulated liquid metal joule heaters. *Multifunctional Materials*. (2020).

13. **Ford, M. J**., Palaniswamy, M., Ambulo, C. P., Ware, T. H., Majidi, C. Size of liquid metal particles influences actuation properties of a liquid crystal elastomer composite. *Soft Matter*. (2020).

14. **Ford, M. J.**, Ambulo, C. P., Kent, T. A., Markvicka, E. J., Pan, C., Malen, J. Ware, T. H., Majidi, C. A Multifunctional Shape Morphing Elastomer with Liquid Metal Inclusions. *Proc. Nat. Acad. Sci.* (2019).

15. Pan, C., Ohm, Y. S., Wang, J., **Ford, M. J.**, Kumar, K., Kumar, S., Majidi, C. Silver-Coated PDMS Beads for Soft, Stretchable, & Thermally Stable Conductive Elastomer Composites. *ACS Appl. Mater. Inter*. (2019).

16. Bridges, C. R., **Ford, M. J.**, Bazan, G. C., Segalman, R. A. Formation and Structure of Lyotropic Liquid Crystalline Mesophases in Donor-Acceptor Semiconducting Polymers. US Patent App. 10/249,821 (2019).

17. **Ford, M. J.,** Bazan, G. C. Stable organic field-effect transistors by incorporating an electron-accepting molecule, US Patent 10,367,144 (2019).

18. Bridges, C. R., **Ford, M. J.**, Thomas, E. M., Gomez, C., Bazan, G. C., Segalman, R. A. Branch point effect on structure and electronic properties of conjugated polymers. US Patent App. 16/144,512 (2019).

19. **Ford, M. J.,** Bazan, G. C., High mobility polymer organic field-effect transistors by blade-coating semiconductor: insulator blend solutions, US Patent 10,217,951 (2019).

20. Bridges, C. R., **Ford, M. J.**, Thomas, E. M., Gomez, C., Bazan, G. C., Segalman, R. A. Effects of Side Chain Branch Point on Self Assembly, Structure, and Electronic Properties of High Mobility Semiconducting Polymers. *Macromolecules*. 51, 8597-8604 (2018).

21. **Ford, M. J.**, Wang, M., Bustillo, K. C., Yuan, J., Nguyen, T.-Q., Bazan, G. C. Acceptor Percolation Determines How Electon-Accepting Additives Modify Transport of Ambipolar Polymer Organic Field-Effect Transistors. *ACS Nano.* 12, 7134-7140 (2018).

22. Lee, J., Ko, S.-J., Seifrid, M., Lee, H., Luginbuhl, B. R., Karki, A., **Ford, M.,** Rosenthal, K., Cho, K., Nguyen, T.-Q., Bazan, G. C. Bandgap Narrowing in Non-Fullerene Acceptors: Single Atom Substitution Leads to High Optoelectronic Response Beyond 1000 nm. *Adv. Energ. Mater.* 1801212 (2018).

23. Brus, V. V., Lee, H. K., Proctor, C. M., Ford, M., Liu, X., Burgers, M. A., Lee, J., Bazan, G. C., Nguyen, T.-Q. Balance Between Light Absorption and Recombination Losses in Solution-Processed Small Molecule Solar Cells with Normal or Inverted Structures. *Adv. Energ. Mater.* 1801807 (2018).

24. Zhang, Y., Xu, Y., **Ford, M. J.**, Li, F., Sun, J., Ling, X., Wang, Y., Gu, J., Yuan, J., Ma, W. Thermally Stable All-Polymer Solar Cells with High Tolerance on Blend Ratios. *Adv. Energ. Mater.* 1800029 (2018).

25. Hu, Y., Rengert, Z. D., McDowell, C., **Ford, M. J.**, Wang, M., Karki, A., Lill, A. T., Bazan, G. C., Nguyen, T.-Q. Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. *ACS Nano*. 12, 3938-3946 (2018).

26. Phan, H., **Ford, M. J.**, Lill, A. T., Wang, M., Bazan, G. C., Nguyen, T.-Q. Electrical Double-Slope Non-Ideality in Organic Field-Effect Transistors. *Adv. Funct. Mater.* 1707221 (2018).

27. Yuan, J., **Ford, M. J.**, Xu, Y., Zhang, Y., Bazan, G. C., Ma, W. Improved Tandem All-Polymer Solar Cells Performance by Using Spectrally Matched Subcells. *Adv. Energ. Mater.* 1703291 (2018).

28. **Ford, M. J.,** Wang, H., Bazan, G. C., Organic semiconductor blends for switching ambipolar transport to n-type transport, US Patent App. 15/599,816 (2017).

29. Wang, M., **Ford, M. J.***, Zhou, C., Seifrid, M., Nguyen, T.-Q., Bazan, G. C. Linear Conjugated Polymer Backbones Improve Alignment in Nanogroove-Assisted Organic Field-Effect Transistors. *J. Am. Chem. Soc.* 139, 17624-17631 (2017).

30. Zhou, C., Chen, Z., Zhang, G., McDowell, C., Luo, P., Jia, X., **Ford, M. J.**, Wang, M., Bazan, G. C., Huang, F., Cao, Y. Toward High Efficiency Polymer Solar Cells: Rearranging the Backbone Units into a Readily Accessible Random Tetrapolymer. *Adv. Energ. Mater.* 8, 1701668 (2017).

31. Phan, H., **Ford, M. J.,** Lill, A. T., Wang, M., Bazan, G. C., Nguyen, T.-Q. Improving Electrical Stability and Ideality in Organic Field-Effect Transistors by the Addition of Fullerenes: Understanding the Working Mechanism. *Adv. Funct. Mater.* 27 (2017).

32. Yuan, J., Ran, N., **Ford, M. J.**, Wang, M., Kumar, R. M., Mai, C.-K., Liu, X., Bredas, J.-L., Nguyen, T.-Q., Ma, W., Bazan, G. C. Structural Variations to a Donor Polymer with Low Energy Losses. *Journal of Mater. Chem. A,* 5, 18618-18626 (2017).

33. Bridges, R. C., **Ford, M. J**., Bazan, G. C., Segalman, R. A., Molecular Considerations for Mesophase Interaction and Alignment of Lyotropic Liquid Crystalline Semiconducting Polymers, *ACS Macro Letters,* 6, 619-624 (2017).

34. Yuan, J., Guo, W., **Ford, M. J.**, Jin, F., Zhao, H., Inganas, O., Bazan, G. C., Ma, W., Comparing the device physics, dynamics and morphology of polymer solar cells employing conventional PCBM and non-fullerene polymer acceptor N2200, *Nano Energy* 35, 251-262 (2017).

35. **Ford, M. J.**, Labram, J. G., Wang, M., Wang, H., Nguyen, T.-Q., Bazan, G. C., Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors, *Adv. Electron. Mater.* 3, (2017).

36. Seifrid, M., **Ford, M. J.**, Li, M., Koh, K. M., Trefonas, P., Bazan, G. C., Electrical Performance of a Molecular Organic Semiconductor under Thermal Stress, *Adv. Mater.* 29, (2017).

37. Yuan, J., **Ford, M. J.**, Zhang, Y., Dong, H., Li, Z., Nguyen, T.-Q., Bazan, G. C., Ma, W. Toward Thermal Stable and High Photovoltaic Efficiency Ternary Conjugated Copolymers: Influence of Backbone Fluorination and Regioselectivity, *Chem. Mater.* 29, 1758-1768, (2017).

38. Wang, M.*, **Ford, M. J.***, Lill, A. T., Phan, H., Nguyen, T.-Q., Bazan, G. C., Hole Mobility and Electron Injection Properties of D-A Conjugated Copolymers with Fluorinated Phenylene Acceptor Units, *Adv. Mater.* 29, (2017).

39. Yuan, J., **Ford, M. J.,** Ma, W., Bazan, G. C., Film morphology of solution-processed regioregular ternary conjugated polymer solar cells under processing additive stress, *J. Mater. Chem. A*, 5, 8903-8908, (2017).

40. Bridges, R. C., **Ford, M. J**., Popere, B. C., Bazan, G. C., Segalman, R. A., Formation and Structure of Lyotropic Liquid Crystalline Mesophases in Donor-Acceptor Semiconducting Polymers, *Macromolecules,* 49, 7220-7229 (2016).

41. Wang, M., Wang, H., **Ford, M.**, Yuan, J., Mai, C.-K., Fronk, S., Bazan, G. C., Influence of Molecular Structure on the Performance of Low V_{oc} Loss Polymer Solar Cells, *J. Mater. Chem. A*, 39, 15232-15239, (2016).

42. Shi, S., Yuan, J., Ding, G., **Ford, M.**, Lu, K., Shi, G., Sun, J., Ling, X., Li, Y., Ma, W., Improved All-Polymer Solar Cell Performance by Using Matched Polymer Acceptor. *Adv. Funct. Mater.* 26, 5669-5678 (2016).

43. Yuan, J., Lu, K., **Ford, M.**, Bazan, G. C., Ma, W., Dual Structure Modifications to Realized Efficient Polymer Solar Cells with Low Fullerene Content, *Org. Electron.* 32, 187-194 (2016).

44. **Ford, M. J.**, Wang, M., Phan, H., Nguyen, T.-Q., Bazan, G. C., Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors, *Adv. Funct. Mater.* 26, 4472-4480 (2016).

45. **Ford, M. J.**, Wang, M., Patel, S. N., Phan, H., Segalman, R. A., Nguyen, T.-Q., Bazan, G. C., High Mobility Organic Field-Effect Transistors from Majority Insulator Blends, *Chem. Mater.* 28, 1256-1260 (2016).

46. Yuan, J., **Ford, M.**, Ding, G., Dong H., Wang, M., Han, L., Li, Y., Bazan, G. C., Ma, W., Narrow bandgap conjugated polymers based on a high-mobility polymer template for visibly transparent photovoltaic devices, *J. Mater. Chem. A*. 44, 17333-17343 (2016).

47. Jiang, T., Xue, Z., **Ford, M.**, Shaw, J., Cao, X., Tao, Y., Hu, Y., Huang, W. An Ultra-Low Bandgap Diketopyrrolopyrrole (DPP)-Based Polymer with Balanced Ambipolar Charge Transport for Organic Field-Effect Transistors, *RSC Adv.* 6, 78720-78726 (2016).

48. Fronk, S. L., Wang, M., **Ford, M.**, Coughlin, J., Mai, C.-K., Bazan, G. C. Effect of Chiral 2-Ethylhexyl Side Chains on Chiroptical Properties of the Narrow Bandgap Conjugated Polymers PCPDTBT and PCDTPT, *Chem. Sci.* 7, 5313-5321 (2016).

49. Wang, M.*, **Ford, M.***, Phan, H., Coughlin, J., Nguyen, T.-Q., Bazan, G. C., Fluorine Substitution Influence on Benzo [2, 1, 3] Thiadiazole Based Polymers for Field-Effect Transistor Applications, *Chem. Comm.* 52, 3207-3210 (2016).

50. Fronk, S. L., Mai, C.-K., **Ford, M.**, Noland, R. P., Bazan, G. C. End-Group-Mediated Aggregation of Poly (3-hexylthiophene), *Macromolecules* 48, 6224-6232 (2015).

51. **Ford, M.,** Busby, E., Larsen, D. S., Ultrafast Dynamics of Poly(3-hexylthiophene), *McNair Thesis Issue 8.3.* McNair Scholars Program, University of California, Davis. (2013).

52. Martin, T. P., Wise, A. J., Busby, E., Gao, J., Roehling, J. D., **Ford, M. J.,** Larsen, D. S., Moulé, A. J., Grey, J. K., Packing Dependent Electronic Coupling in Single Poly(3-hexylthiophene) H- and J-Aggregate Nanofibers, *J. Phys. Chem. B* 117, 4478–4487, (2012).

References

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