

MC-CAM Publications

2017:

“Molecular Considerations for Mesophase Interaction and Alignment of Lyotropic Liquid Crystalline Semiconducting Polymers”

Colin R. Bridges, Michael J. Ford, Guillermo C. Bazan, and Rachel A. Segalman
ACS Macro Letters, 6(6): 619-624 (2017). [DOI Link](#)

“Catalyst-free one-step synthesis of ortho-tetraaryl perylene diimides for efficient OPV non-fullerene acceptors”

Xiangchun Li, Hengbin Wang, Julia A. Schneider, Zitang Wei, Wen-Yong Lai, Wei Huang, Fred Wudl, and Yonghao Zheng
Journal of Materials Chemistry C, 11(5): 2781-2785 (2017). [DOI Link](#)

“Carrier-Selective Traps: A New Approach for Fabricating Circuit Elements with Ambipolar Organic Semiconductors”

Michael J. Ford, John G. Labram, Ming Wang, Hengbin Wang, Thuc-Quyen Nguyen, Guillermo C. Bazan
Advanced Electronic Materials, 3: 1600537 (2017). [DOI Link](#)

“Structural Evolution and Atom Clustering in β -SiAlON: β -Si_{6-z}Al_zO_zN_{8-z}”

Clayton Cozzan, Kent J. Griffith, Geneva Laurita, Jerry G. Hu, Clare P. Grey, and Ram Seshadri,
Inorganic Chemistry, 56(4): 2153-2158 (2017). [DOI Link](#)

“Local Structure Evolution and Modes of Charge Storage in Secondary Li-FeS₂ Cells”

Megan M. Butala, Martin Mayo, Vicky V. T. Doan-Nguyen, Margaret A. Lumley, Claudia Göbel, Kamila M. Wiaderek, Olaf J. Borkiewicz, Karena W. Chapman, Peter J. Chupas, Mahalingam Balasubramanian, Geneva Laurita, Sylvia Britto, Andrew J. Morris, Clare P. Grey, and Ram Seshadri
Chemistry of Materials, 29(7): 3070-3082 (2017). [DOI Link](#)

“Reversible Capacity of Conductive Carbon Additives at Low Potentials: Caveats for Testing Alternative Anode Materials for Li-Ion Batteries”

Kimberly A. See, Margaret A. Lumley, Galen D. Stucky, Clare P. Grey, and Ram Seshadri
Journal of the Electrochemical Society, 164(2): A327-A333 (2017). [DOI Link](#)

“Hole Mobility and Electron Injection Properties of D-A Conjugated Copolymers with Fluorinated Phenylene Acceptor Units”

Ming Wang, Michael J. Ford, Alexander T. Lill, Hung Phan, Thuc-Quyen Nguyen, Guillermo C. Bazan
Advanced Materials, 29 (7): 1603830- (2017). [DOI Link](#)

2016:

“Influence of molecular structure on the performance of low Voc loss polymer solar cells”

Ming Wang, Hengbin Wang, Michael Ford, Jianyu Yuan, Cheng-Kang Mai, Stephanie Fronk, Guillermo C. Bazan
Journal of Materials Chemistry A, 4: 15232-15239 (2016). [DOI Link](#)

“A Fully Aromatic High Performance Thermoset via Sydnone-Alkyne Cycloaddition”

Nisha V. Handa, Shaoguang Li, Jeffrey A. Gerbec, Naoko Sumitani, Craig J. Hawker, and Daniel Klinger
Journal of the American Chemical Society, 138 (20): 6400-6403 (2016). [DOI Link](#)

“Fullerene Additives Convert Ambipolar Transport to p-Type Transport while Improving the Operational Stability of Organic Thin Film Transistors”

Michael J. Ford, Ming Wang, Hung Phan, Thuc-Quyen Nguyen, Guillermo C. Bazan
Advanced Functional Materials, 26(25): 4472-4480 (2016). [DOI Link](#)

“(TTF)Pb2I5: A Radical Cation-Stabilized Hybrid Lead Iodide with Synergistic Optoelectronic Signatures”
Hayden A. Evans, Anna J. Lehner, John G. Labram, Douglas H. Fabini, Omar Barreda, Sara R. Smock, Guang Wu, Michael L. Chabinyc, Ram Seshadri and Fred Wudl
Chemistry of Materials, 28(11): 3607-3611 (2016). [DOI Link](#)

“MnO Conversion in Li-Ion Batteries: In Situ Studies and the Role of Messtructuring”
Megan M. Butala, Katherine R. Danks, Margaret A. Lumley, Shiliang Zhou, Brent C. Melot, and Ram Seshadri
ACS Applied Materials & Interfaces, 8(10): 6496-653 (2016). [DOI Link](#)

“Fluorine substitution influence on benzo[2,1,3]thiadiazole based polymers for field-effect transistor applications”
Ming Wang, Michael Ford, Hung Phan, Jessica Coughlin, Thuc-Quyen Nguyen and Guillermo C. Bazan
Chemical Communications, 52: 3207-3210 (2016). [DOI Link](#)

“High Mobility Organic Field-Effect Transistors from Majority Insulator Blends”
Michael J. Ford, Ming Wang, Shrayesh N. Patel, Hung Phan, Rachel A. Segalman, Thuc-Quyen Nguyen, and Guillermo C. Bazan
Chemistry of Materials, 28 (5): 1256-1260 (2016). [DOI Link](#)

“Flexible Organic Transistors with Controlled Nanomorphology”
Byoung Hoon Lee, Ben B. Y. Hsu, Shrayesh N. Patel, John Labram, Chan Luo, Guillermo C. Bazan, and Alan J. Heeger
Nanoletters, 16 (1): 314-319 (2016). [DOI Link](#)

“Formation and Structure of Lyotropic Liquid Crystalline Mesophases in Donor–Acceptor Semiconducting Polymers”
Colin R. Bridges, Michael J. Ford, Bhooshan C. Popere, Guillermo C. Bazan, and Rachel A. Segalman
Macromolecules, 49 (19), 7220–7229 (2016). [DOI Link](#)

2015:

“A single-phase full-color phosphor based on Ba₃MgSi₂O₈ co-activated with Eu²⁺, Tb³⁺, and Mn²⁺”
Alexander Birkel, Nicholas A. DeCino, Clayton Cozzan, Alexander A. Mikhailovsky, Byung-Chul Hong, Ram Seshadri
Solid State Sciences, 48: 82-89 (2015). [DOI Link](#)

“Nanostructured Mn-Doped V₂O₅ Cathode Material Fabricated from Layered Vanadium Jarosite”
Hongmei Zeng, Deyu Liu, Yichi Zhang, Kimberly A. See, Young-Si Jun, Guang Wu, Jeffrey A. Gerbec, Xiulei Ji, and Galen D. Stucky
Chemistry of Materials, 27 (21): 7331-7336 (2015). [DOI Link](#)

“NEXAFS Spectroscopy Reveals the Molecular Orientation in Blade-Coated Pyridal[2,1,3]thiadiazole-Containing Conjugated Polymer Thin Films”
Shrayesh N. Patel, Gregory M. Su, Chan Luo, Ming Wang, Louis A. Perez, Daniel A. Fischer, David Prendergast, Guillermo C. Bazan, Alan J. Heeger, Michael L. Chabinyc, and Edward J. Kramer
Macromolecules, 48 (18): 6606–6616 (2015). [DOI Link](#)

“Electronic structure and photovoltaic application of BiI₃”

Anna J. Lehner, Hengbin Wang, Douglas H. Fabini, Christopher D. Liman, Claire-Alice Hébert, Erin E. Perry, Ming Wang, Guillermo C. Bazan, Michael L. Chabinyc and Ram Seshadri
Applied Physics Letters, 107: 131109 (2015). [DOI Link](#)

“Electrical Instability Induced by Electron Trapping in Low-Bandgap Donor–Acceptor Polymer Field-Effect Transistors”

Hung Phan, Ming Wang, Guillermo C. Bazan, Thuc-Quyen Nguyen
Advanced Materials, 27 (43): 7004-7009 (2015). [DOI Link](#)

“Temperature-Dependent Polarization in Field-Effect Transport and Photovoltaic Measurements of Methylammonium Lead Iodide”

John G. Labram, Douglas H. Fabini, Erin E. Perry, Anna J. Lehner, Hengbin Wang, Anne M. Glaudell, Guang Wu, Hayden Evans, David Buck, Robert Cotta, Luis Echegoyen, Fred Wudl, Ram Seshadri, and Michael L. Chabinyc

The Journal of Physical Chemistry Letters, 6 (18): 3565-3571 (2015). [DOI Link](#)

“Crystal and Electronic Structures of Complex Bismuth Iodides $A_3Bi_2I_9$ ($A = K, Rb, Cs$) Related to Perovskite: Aiding the Rational Design of Photovoltaics”

Anna J. Lehner, Douglas H. Fabini, Hayden A. Evans, Claire-Alice Hébert, Sara R. Smock, Jerry Hu, Hengbin Wang, Josef W. Zwanziger, Michael L. Chabinyc, and Ram Seshadri

Chemistry of Materials, 27 (20): 7137-7148 (2015). [DOI Link](#)

“Twisted olefinic building blocks for low bandgap polymers in solar cells and ambipolar field-effect transistors”

Chien-Yang Chiu, Hengbin Wang, Hung Phan, Kazuya Shiratori, Thuc-Quyen Nguyen, Craig J. Hawker

Journal of Polymer Science Part A: Polymer Chemistry, 54 (17): 889-899 (2015). [DOI Link](#)

2014:

“High-Mobility Field-Effect Transistors Fabricated with Macroscopic Aligned Semiconducting Polymers”

Hsin-Rong Tseng, Hung Phan, Chan Luo, Ming Wang, Louis A. Perez, Shrayesh N. Patel, Lei Ying, Edward J. Kramer, Thuc-Quyen Nguyen, Guillermo C. Bazan, and Alan J. Heeger

Advanced Materials, 26 (19): 2993-2998 (2014). [DOI Link](#)

“High Open Circuit Voltage in Regioregular Narrow Band Gap Polymer Solar Cells”

Ming Wang, Hengbin Wang, Takamichi Yokoyama, Xiaofeng Liu, Ye Huang, Yuan Zhang, Thuc-Quyen Nguyen, Shinji Aramaki, and Guillermo C. Bazan

Journal of the American Chemical Society, 136 (36): 12576-12579 (2014). [DOI Link](#)

“Local structure and structural rigidity of the green phosphor β -SiAlON:Eu²⁺”

J. Brgoch, M. W. Gaultois, M. Balasubramanian, K. Page, B.-C. Hong, and R. Seshadri

Applied Physics Letters, 105: 181904 (2014). [DOI Link](#)

“Sulfur infiltrated mesoporous graphene–silica composite as a polysulfide retaining cathode material for lithium–sulfur batteries”

Kyoung Hwan Kim, Young-Si Jun, Jeffrey A. Gerbec, Kimberly A. See, Galen D. Stucky, Hee-Tae Jung

Carbon, 69: 543-551 (2014). [DOI Link](#)

“Accessing $(Ba_{1-x}Sr_x)Al_2Si_2O_8:Eu$ phosphors for solid state white lighting via microwave assisted preparation: Tuning emission color through coordination environment”

J. Brgoch, S. D. Kloß, K. A. Denault, and R. Seshadri

Zeitschrift für Anorganische und Allgemeine Chemie, 640 (6): 1182-1189 (2014). [DOI Link](#)

“Data-driven discovery of energy materials: efficient BaM₂Si₃O₁₀: Eu²⁺ (M = Sc, Lu) phosphors for application in solid state white lighting”

J. Brgoch, Kathryn Hasz, Kristin A. Denault, Christopher K. H. Borg, Alexander A. Mikhailovsky, and Ram Seshadri

Faraday Discussions, 176: 333-347 (2014). [DOI Link](#)

“Sulfur-functionalized mesoporous carbons as sulfur hosts in Li–S batteries: Increasing the affinity of sulfur intermediates to enhance performance”

K. See, Y.-S. Jun, J. Gerbec, J. Sprafke, F. Wudl, G. Stucky, and R. Seshadri

ACS Applied Materials Interfaces, 6 (14): 10908-10916 (2014). [DOI Link](#)

“Effect of copper metalation of tetrabenzoporphyrin donor material on organic solar cell performance”

Michele Guide, Jason D. A. Lin, Christopher M. Proctor, Jingrun Chen, Carlos Garcia-Cervera, and Thuc-Quyen Nguyen

Journal of Materials Chemistry A, 21 (2): 7890-7896 (2014). [DOI Link](#)

“General Strategy for Self-Assembly of Highly Oriented Nanocrystalline Semiconducting Polymers with High Mobility”

Chan Luo, Aung Ko Ko Kyaw, Louis A. Perez, Shrayesh Patel, Ming Wang, Bruno Grimm, Guillermo C. Bazan, Edward J. Kramer, and Alan J. Heeger

Nanoletters, 14 (5): 2764-2771 (2014). [DOI Link](#)

“Twisted but Conjugated: Building Blocks for Low Bandgap Polymers”

Dr. Chien-Yang Chiu, Dr. Hengbin Wang, Dr. Fulvio G. Brunetti, Prof. Fred Wudl and Prof. Craig J. Hawker

Angewandte Chemie International Edition, 53 (15): 3996-4000 (2014). [DOI Link](#)

2013:

“Allyl Glycidyl Ether-Based Polymer Electrolytes for Room Temperature Lithium Batteries”

Katherine P. Barteau, Martin Wolffs, Nathaniel A. Lynd, Glenn H. Fredrickson, Edward J. Kramer, and Craig J. Hawker

Macromolecules, 46 (22): 8988-8994 (2013). [DOI Link](#)

“Average and Local Structural Origins of the Optical Properties of the Nitride Phosphor La_{3-x}Ce_xSi₆N₁₁ (0 < x ≤ 3)”

Nathan C. George, Alexander Birkel, Jakoah Brgoch, Byung-Chul Hong, Alexander A. Mikhailovsky, Katharine Page, Anna Llobet, and Ram Seshadri

Inorganic Chemistry, 52 (23): 13730-13741 (2013). [DOI Link](#)

“A structure-property-performance investigation of perylenediimides as electron accepting materials in solar cells”

Michele Guide, Sara Pla, Alexander Sharenko, Peter Zalar, Fernando Fernández-Lázaro, Ángela Sastre-Santos, and Thuc-Quyen Nguyen

Physical Chemistry Chemical Physics, 15: 18894 – 18899 (2013). [DOI Link](#)

“Bimodal Mesoporous Titanium Nitride/Carbon Microfibers as Efficient and Stable Electrocatalysts for Li–O₂ Batteries”

Jihee Park, Young-Si Jun, Woo-ram Lee, Jeffrey A. Gerbec, Kimberly A. See, and Galen D. Stucky

Chemistry of Materials, 25 (19): 3779-3781 (2013). [DOI Link](#)

“Dithienylbenzodipyrrolidone: New Acceptor for Donor–Acceptor Low Band Gap Polymers”

Weibin Cui and Fred Wudl

Macromolecules, 46 (18): 7232-7238 (2013). [DOI Link](#)

“A One-Step Strategy for End-Functionalized Donor–Acceptor Conjugated Polymers”

Maxwell J. Robb, Damien Montarnal, Nancy D. Eisenmenger, Sung-Yu Ku, Michael L. Chabinyc, and Craig J. Hawker

Macromolecules, 46 (16): 6431-6438 (2013). [DOI Link](#)

“Regioregular pyridyl[2,1,3]thiadiazole-coindacenodithiophene conjugated polymers”

Wen Wen, Lei Ying, Ben B. Y. Hsu, Yuan Zhang, Thuc-Quyen Nguyen, and Guillermo C. Bazan

Chemical Communications, 49 (65): 7192-7194 (2013). [DOI Link](#)

“A High Capacity Calcium Primary Cell Based on the Ca-S System”

Kimberly A. See, Jeffrey A. Gerbec, Young-Si Jun, Fred Wudl, Galen D. Stucky, Ram Seshadri

Advanced Energy Materials, 3 (8): 1056-1061 (2013). [DOI Link](#)

“Eu²⁺-doped M₂SiO₄ (M = Ca, Ba) phosphors prepared by a rapid microwave-assisted sol–gel method: Phase formation and optical properties”

Alexander Birkel, Nicholas A. DeCino, Nathan C. George, Katherine A. Hazelton, Byung-Chul Hong, Ram Seshadri

Solid State Sciences, 19: 51-57 (2013). [DOI Link](#)

2012:

“All-Conjugated Triblock Polyelectrolytes”

Lei Ying, Peter Zalar, Samuel D. Collins, Zhao Chen, Alexander A. Mikhailovsky, Thuc-Quyen Nguyen, and Guillermo C. Bazan

Advanced Materials, 24 (48): 6496-6501 (2012). [DOI Link](#)

“Crystalline Polymorphs of [6,6]-Phenyl-C₆₁-butyric Acid *n*-Butyl Ester (PCBNB)”

Soo-Hyung Choi, Christopher D. Liman, Stephan Krämer, Michael L. Chabinyc, and Edward J. Kramer

Journal of Physical Chemistry B, 116 (45): 13568-13574 (2012). [DOI Link](#)

“High Mobility Field Effect Transistors Based on Macroscopically Oriented Regioregular Copolymers”

Hsin-Rong Tseng, Lei Ying, Ben B. Y. Hsu, Louis A. Perez, Christopher J. Takacs, Guillermo C. Bazan, and Alan J. Heeger

Nanoletters, 12 (12): 6353-6357 (2012). [DOI Link](#)

“A Modular Strategy for Fully Conjugated Donor-Acceptor Block Copolymers”

Sung-Yu Ku, Michael A. Brady, Neil D. Treat, Justin E. Cochran, Maxwell J. Robb, Edward J. Kramer, Michael L. Chabinyc and Craig J. Hawker

Journal of the American Chemical Society, 134 (38): 16040-16046 (2012). [DOI Link](#)

“Polymer-Fullerene Miscibility: A Metric for Screening New Materials for High-Performance Organic Solar Cells”

Neil D. Treat, Alessandro Varotto, Christopher J. Takacs, Nicolas Batara, Mohammed Al-Hashimi, Martin J. Heeney, Alan J. Heeger, Fred Wudl, Craig J. Hawker, and Michael L. Chabinyc

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“Tough and Elastic Thermoplastic Organogels and Elastomers Made of Semicrystalline Polyolefin-Based Block Copolymers”

Fanny Deplace, Arthur K. Scholz, Glenn H. Fredrickson, Edward J. Kramer, Yong-Woo Shin, Fumihiko Shimizu, Feng Zuo, Lixia Rong, Benjamin S. Hsiao, and Geoffrey W. Coates

Macromolecules, 45 (13): 5604-5618 (2012). [DOI Link](#)

“Patterning and Electronic Tuning of Laser Scribed Graphene for Flexible All-Carbon Devices”
Veronica Strong, Sergey Dubin, Maher F. El-Kady, Andrew Lech, Yue Wang, Bruce H. Weiller, and Richard B. Kaner
ACS Nano, 6 (2): 1395-1403 (2012). [DOI Link](#)

“Microwave assisted preparation of Eu²⁺-doped Åkermanite Ca₂MgSi₂O₇”
Alexander Birkel, Lucy E. Darago, Alasdair Morrison, Laurianne Lory, Nathan C. George, Alexander A. Mikhailovsky, Christina S. Birkel, and Ram Seshadri
Solid State Sciences, 14 (6): 739-745 (2012). [DOI Link](#)

“Rapid Microwave Preparation of Highly Efficient Ce³⁺-Substituted Garnet Phosphors for Solid State White Lighting”
Alexander Birkel, Kristin A. Denault, Nathan C. George, Courtney E. Doll, Bathylle Héry, Alexander A. Mikhailovsky, Christina S. Birkel, Byung-Chul Hong, and Ram Seshadri
Chemistry of Materials, 24 (6): 1198-1204 (2012). [DOI Link](#)

“Control of Efficiency, Brightness, and Recombination Zone in Light-Emitting Field Effect Transistors”
Ben B.Y. Hsu, Chunhiu Duan, Ebinazar B. Namdas, Andrea Gutacker, Jonathan D. Yuen, Fei Huang, Yong Cao, Guillermo C. Bazan, Ifor D. W. Samuel, Alan J. Heeger^{1,*}
Advanced Materials, 24 (9): 1171-1175 (2012). [DOI Link](#)

“Propylene Polymerization with α -Keto- β -Diimine Initiators Proceeds via Enantiomorphic Site Control”
Jason D. Azoulay, Haiyang Gao, Zachary A. Koretz, Gerald Kehr, Gerhard Erker, Fumihiko Shimizu, Griselda B. Galland, and Guillermo C. Bazan
Macromolecules, 45 (11): 4487-4493 (2012). [DOI Link](#)

“Two-Dimensional GIWAXS Reveals a Transient Crystal Phase in Solution-Processed Thermally Converted Tetrabenzoporphyrin”
Christopher D. Liman, Soohyung Choi, Dag W. Breiby, Justin E. Cochran, Michael F. Toney, Edward J. Kramer, and Michael L. Chabinyc
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“A Facile Synthesis of Low-Band-Gap Donor–Acceptor Copolymers Based on Dithieno[3,2-*b*:2',3'-*d*]thiophene”
Sung-Yu Ku, Christopher D. Liman, Daniel J. Burke, Neil D. Treat, Justin E. Cochran, Elizabeth Amir, Louis A. Perez, Michael L. Chabinyc, and Craig J. Hawker
Macromolecules, 44 (24): 9533-9538 (2011). [DOI Link](#)

“Regioregular Pyridal[2,1,3]thiadiazole π -Conjugated Copolymers”
Lei Ying, Ben B. Y. Hsu, Hongmei Zhan, Gregory C. Welch, Peter Zalar, Louis Perez, Edward J. Kramer, Thuc-Quyen Nguyen, Alan J. Heeger, Wai-Yeung Wong, and Guillermo C. Bazan
Journal of the American Chemical Society, 133 (46): 18538-18541 (2011). [DOI Link](#)

“Clay-Catalyzed Cracking Leads to Suppressed Flammability in Clay–Polyolefin Nanocomposites”
Bryanna M. Kunkel, Brian C. Peoples, Cathleen M. Yung, Susannah L. Scott
Macromolecular Materials and Engineering, 296 (12): 1075-1080 (2011). [DOI Link](#)

“Linear, high molecular weight polyethylene from a discrete, mononuclear phosphinoarenesulfonate complex of nickel(II)”
Philippe Perrotin, Jenny S. McCahill, Guang Wu, Susannah L. Scott

Chemical Communications, 47: 6948-6950 (2011). [DOI Link](#)

“Solution-Processed Nanostructured Benzoporphyrin with Polycarbonate Binder for Photovoltaics”
Sung-Yu Ku, Christopher Liman, Justin Cochran, Michael Toney, Michael Chabinye, Craig Hawker
Advanced Materials, 23 (20): 2289-2293 (2011). [DOI Link](#)

“1,4-Fullerene Derivatives: Tuning the Properties of the Electron Transporting Layer in Bulk-Heterojunction Solar Cells”
Alessandro Varotto, Neil D. Treat, Jang Jo, Christopher G. Shuttle, Nicolas A. Batara, Fulvio G. Brunetti, Jung Hwa Seo, Michael L. Chabinye, Craig J. Hawker, Alan J. Heeger, Fred Wudl
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“Nanoscale Characterization of Tetrabenzoporphyrin and Fullerene-Based Solar Cells by Photoconductive Atomic Force Microscopy”
Michele Guide, Xuan-Dung Dang, Thuc-Quyen Nguyen
Advanced Materials, 23 (20): 2313-2319 (2011). [DOI Link](#)

“Understanding ligand-centred photoluminescence through flexibility and bonding of anthraquinone inorganic-organic frameworks”
Joshua D. Furman, Ryan P. Burwood, Min Tang, Alexander D. Mikhailovsky, and Anthony K. Cheetham
Journal of Materials Chemistry, 21: 6595 – 6601 (2011). [DOI Link](#)

“Towards enhanced ligand-centred photoluminescence in inorganic–organic frameworks for solid state lighting”
Joshua D. Furman, Brent C. Melot, Simon J. Teat, Alexander A. Mikhailovsky and Anthony K. Cheetham
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“Synthesis and Characterization of Semicrystalline Polyethylene-*graft*-Poly(acrylic acid) Copolymers”
Yanika Schneider, Brian T. McVerry, Guillermo C. Bazan
Macromolecular Chemistry and Physics, 212 (5): 507-514 (2011). [DOI Link](#)

“A synthetic approach to a fullerene-rich dendron and its linear polymer via ring-opening metathesis polymerization”
Jonggi Kim, Myoung Hee Yun, Junghoon Lee, Jin Young Kim, Fred Wudl and Changduk Yang
Chemical Communications, 47: 3078-3080 (2011). [DOI Link](#)

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“Binuclear Initiators for the Telechelic Synthesis of Elastomeric Polyolefins”
Robert C. Coffin, Yanika Schneider, Edward J. Kramer, and Guillermo C. Bazan
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“Ketene Functionalized Polyethylene: Control of Cross-Link Density and Material Properties”
Frank A. Leibfarth, Yanika Schneider, Nathaniel A. Lynd, Alison Schultz, Bongjin Moon, Edward J. Kramer, Guillermo C. Bazan, and Craig J. Hawker
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“Nanostructured Hybrid Solar Cells: Dependence of the Open Circuit Voltage on the Interfacial Composition”
Neil D. Treat, Luis M. Campos, Michael D. Dimitriou, Biwu Ma, Michael L. Chabinye, Craig J. Hawker
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“Well-Defined Cationic Methallyl α -Keto- β -Diimine Complexes of Nickel”
Jason D. Azoulay, Zachary A. Koretz, Guang Wu, and Guillermo C. Bazan

Angewandte Chemie, 49 (43): 7890-7894 (2010). [DOI Link](#)

“Step-Cycle Mechanical Processing of Gels of sPP-*b*-EPR-*b*-sPP Triblock Copolymer in Mineral Oil”
Zhigang Wang, Yanhua Niu, Glenn H. Fredrickson, Edward J. Kramer, Yong-Woo Shin, Fumihiko Shimizu, Feng Zuo, Lixia Rong, Benjamin S. Hsiao and Geoffrey W. Coates
Macromolecules, 43 (16): 6782-6788 (2010). [DOI Link](#)

“Processing-Structure-Mechanical Property Relationships of Semicrystalline Polyolefin-Based Block Copolymers”
Fanny Deplace, Zhigang Wang, Nate Lynd, Atsushi Hotta, Jeffrey M. Rose, Jeffrey M. Rose, Philip D. Hustad, Jun Tian, Hisashi Ohtaki, Geoffrey W. Coates, Fumihiko Shimizu, Kousou Hirokane, Fumiyoshi Yamada, Yong-Woo Shin, Lixia Rong, Jie Zhu, Shigeyuki Toki, Benjamin S. Hsiao, Glenn H. Fredrickson, Edward J. Kramer
Journal of Polymers Science Part B: Polymer Physics, 48 (13): 1428-1437 (2010). [DOI Link](#)

“High performance encapsulation structures utilizing Russian Doll architectures”
Jimmy Granstrom, Mikael Gällstedt, Michael Villet, Ji Sun Moon, and Tirtha Chatterjee
Thin Solid Films, 518 (18): 5282-5287 (2010). [DOI Link](#)

“Tunable, Ligand-Based Emission from Inorganic-Organic Frameworks: A New Approach to Phosphors for Solid State Lighting”
Joshua D. Furman, Alina Y. Warner, Simon J. Teat, Alexander A. Mikhailovsky, and Anthony K. Cheetham
Chemistry of Materials, 22 (7): 2255-2260 (2010). [DOI Link](#)

“Self-Assembly and Charge-Transport Properties of a Polythiophene-Fullerene Triblock Copolymer”
Mark Dante, Changduk Yang, Bright Walker, Fred Wudl and Thuc-Quyen Nguyen
Advanced Materials, 22 (16): 1835-1839 (2010). [DOI Link](#)

“Synthesis of Eu²⁺-Activated MYSi₄N₇ (M=Ca,Sr,Ba) and SrYSi_{4-x}Al_xN_{7-x}O_x (x=0–1) Green Phosphors by Carbothermal Reduction and Nitridation”
Tomoyuki Kurushima, Gautam Gundiah, Yasuo Shimomura, Masayoshi Mikami, Naoto Kijima, and Anthony K. Cheetham
Journal of the Electrochemical Society, 157 (3): J64-J68 (2010). [DOI Link](#)

“High Surface Area Poly(3-hexylthiophenes) Thin Films from Cleavable Graft Copolymers”
Kulandaivelu Sivanandan, Tirtha Chatterjee, Neil Treat, Edward J. Kramer, and Craig J. Hawker
Macromolecules, 43 (1): 233-241 (2010). [DOI Link](#)

“Improvements in barrier performance of perfluorinated polymer films through suppression of instability during film formation”
Jimmy Granstrom, Anshuman Roy, Griffin Rowell, Ji Sun Moon, Evan Jerkunica and Alan J. Heeger
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“Dendronized macromonomers for three-dimensional data storage”
Anzar Khan, Anders E. Daugaard, Andrea Bayles, Shogo Koga, Yasuaki Miki, Ken Sato, Jun Enda, Soren Hvilsted, Galen D. Stucky and Craig J. Hawker
Chemical Communications, 425 (2009). [DOI Link](#)

“High throughput screening and measurements of proton conductivity of newly developed PEM materials based on proton transport visualization”
Anna Ivanovskaya, Jie Fan, Fred Wudl, Galen Stucky

Journal of Membrane Science, 330: 326-333 (2009). [DOI Link](#)

“Electrocatalytic Activity of Gold–Platinum Clusters for Low Temperature Fuel Cell Applications”
Wei Tang, Shrisudersan Jayaraman, Thomas Jaramillo, Galen Stucky, Eric McFarland
Journal of Physical Chemistry C, 113 (12): 5014-5024. [DOI Link](#)

“Nickel α -Keto- β -Diimine Initiators for Olefin Polymerization”
Jason D. Azoulay, Rene S. Rojas, Abigail V. Serrano, Hisashi Ohtaki, Griselda B. Galland, Guang Wu, Guillermo C. Bazan
Angewandte Chemie, 48 (6): 1089-1092 (2009). [DOI Link](#)

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