

研究業績リスト

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大阪公立大学大学院工学研究科
物質化学生命系専攻
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原著論文

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1A-LO-010)
29th IUPAC Symposium on Photochemistry (PhotoIUPAC) (Valencia, Spain, July 14-19, 2024)

招待講演・依頼講演（国際会議については上記と重複あり）

- (1) 小畠誠也
ジアリールエテン単結晶のフォトクロミズム
フォトクロミック材料の現状 – 光ナノテク材料への展開, 独立行政法人産業総合研究所
関西センター (2001年12月12日)
- (2) 小畠誠也
ジアリールエテン単結晶のフォトクロミズム
粒子線の高度利用, 京都大学放射線研究所 (2002年3月5日)
- (3) 小畠誠也

- ジアリールエテンのフォトクロミック反応制御
第5回CREST 計算化学研究会, 東北大学工学部 (2002年7月25日)
- (4) Seiya Kobatake and Masahiro Irie
Efficient photocyclization reactions in single-crystalline photochromism of diarylethenes
International Symposium on Photochromic Diarylethenes — Fundamentals and Applications —, Miesbach, Germany (September 18-20, 2002).
- (5) 小畠誠也
ジアリールエテン単結晶のフォトクロミズム (進歩賞受賞講演1-B3-28)
日本化学会第83春季年会, 早稲田大学西早稲田キャンパス (2003年3月18-21日)
- (6) 小畠誠也・入江正浩
分子結晶の光反応ナノダイナミックス (特別企画招待講演3-S8-02)
日本化学会第83春季年会, 早稲田大学西早稲田キャンパス (2003年3月18-21日)
- (7) 小畠誠也
光で色の変わる光機能性有機結晶材料
大阪市立大学大学院工学研究科 第9回「オープン・ラボラトリ」, 大阪産業創造館 (2004年5月28日)
- (8) 小畠誠也
光機能性有機結晶材料の創製
第4回 資源化学研究所フォーラム, 東京工業大学 (2005年3月10日)
- (9) 小畠誠也
光機能性フォトクロミック有機結晶材料の開発
第93回ラドテック研究会, 大阪科学技術センター (2005年6月7日)
- (10) 小畠誠也
有機フォトクロミック固体材料の開発と表示材料への応用
有機ナノテク材料研究交流会, アバローム紀の国, 和歌山 (2005年7月5日)
- (11) Seiya Kobatake, Masakazu Morimoto, Masahiro Irie
Control of nanostructure in photochromic diarylethene single crystals
ICCE-14, Boulder, Colorado, USA (July 2-8, 2006)
- (12) Seiya Kobatake
Single-crystalline Photochromism of Diarylethenes with High Conversion
Japanese-French Joint Seminar on Organic Photochromism -Switches and Memories-, Hayama, Kanagawa, Japan (October 15-18, 2006)
- (13) 小畠誠也
光機能性固体材料の新展開
第68回高分子若手研究会[関西], 神戸市セミナーハウス (2007年7月28-29日)
- (14) Seiya Kobatake
Photoresponsive Property Changes of Organic Photochromic Crystals
11th OCU International Symposium, Osaka City University (August 3, 2007)
- (15) 小畠誠也
光と色と化学反応
2007年度大阪市立大学化学セミナー, 大阪市立大学 (2007年8月3-4日)
- (16) 小畠誠也
可視光安定・加熱消去型フォトクロミック化合物を用いた光プリント表示材料への可能性
『電子ペーパー』における研究・用途開発のトレンド, 東京都大井町・きゅりあん (2007年8月29-31日)
- (17) 小畠誠也
光機能性有機固体材料の新展開
高分子講座, 高分子学会中国四国支部, 徳島大学工業会館 (2007年11月9日)
- (18) Seiya Kobatake
Photoreversible Property Changes of Photochromic Diarylethene Crystals

- (19) 2007 Korea-Japan Symposium on Frontier Photoscience, Gyeongju, Korea (November 22-25, 2007)
小畠誠也
光で形を変える結晶材料
2008年度第2回光材料・応用技術研究会, 機械振興会館, 東京 (2008年10月3日)
- (20) Seiya Kobatake
Photoreversible Property Changes of Photochromic Diarylethene Crystals
JAPAN-KOREA Polymer Young Scientist Symposium, New Green-pia Tsunan, Niigata, Japan
(October 22-25, 2008)
- (21) Seiya Kobatake
Photoresponsive Crystal Shape Changes of Photochromic Diarylethenes
The 4th LSW Symposium on Soft & Wet Matter, Hokkaido University, Japan (January 9, 2009)
- (22) Seiya Kobatake
Photoinduced reversible crystal shape changes of photochromic diarylethenes
18th ISPPCC Satellite Symposium on Photochemistry and Photobiology of Supramolecular Systems and Coordination Compounds (PPC2009), Shiga, Japan, *Preprints* O-4 (July 9-11, 2009).
- (23) 小畠誠也
光機能性有機分子結晶の固体物性制御
「構造制御と機能」研究領域 平成21年度成果報告会 ナノサイエンスを舞台とする若き分子科学者達の挑戦, 京都ガーデンパレス (2010年2月1日)
- (24) 小畠誠也
光機能性有機分子材料の新展開
第8回キャンパス交流会 講演会, 大阪市立大学 (2010年2月10日)
- (25) 小畠誠也
光機能性有機分子結晶の物性制御
革新的な材料・プロセス研究センター 2009年度シンポジウム, 龍谷大学瀬田学舎 (2010年3月8日)
- (26) Seiya Kobatake
Photoresponsive property changes of photochromic diarylethene crystals
International Symposium on Functional Nanosystems: Molecular Electronics and Photonics, Nara, Japan, *Preprints* p.13 (July 2, 2010).
- (27) Seiya Kobatake
Photoresponsive solid state property change of photochromic crystals
Japan-China Joint Symposium on Functional Supramolecular Architectures, Changchun, China, *Preprints* p.33-34 (July 24-28, 2010).
- (28) Seiya Kobatake
Molecular design for photoresponsive crystal shape changes of diarylethenes
The 6th International Symposium on Organic Photochromism (ISOP2010), Yokohama, Japan, *Preprints* p.31-32 (IL-05) (October 17-21, 2010).
- (29) 小畠誠也
メゾスコピック光機能性有機分子結晶の固体物性制御
第19回有機結晶シンポジウム, 大阪市立大学 (2010年11月11-12日)
- (30) Seiya Kobatake
Photoresponsive property changes of photochromic diarylethene crystals
6th Asian Photochemistry Conference 2010, Wellington, New Zealand, *Preprints* (November 14-18, 2010).
- (31) 小畠誠也
光で動く分子と結晶
第2回 SPring-8 次期計画 2019 シンポジウム ~光科学の明日~, 学術総合センター (2010年12月4日)
- (32) Seiya Kobatake

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14th Asian Chemical Congress (14 ACC), Bangkok, Thailand, *Preprints* p.243 (INV0248) (September 5-8, 2011).

(33) Seiya Kobatake

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7th Handai Nanoscience and Nanotechnology International Symposium, Osaka University, *Preprints* p. 42-43 (C-3) (November 10-11, 2011).

(34) 小畠誠也

光で動く光機能性有機結晶
印刷・情報記録・表示研究会および光反応・電子用材料研究会, 三菱電機 先端技術総合研究所, *Preprints* p. 5-6 (2011年12月21日)

(35) 小畠誠也

フォトクロミック分子集合体材料の設計と機能
第61回高分子討論会, 名古屋工業大学, *Polymer Preprints*, Vol. 61(2), p. 4506-4508 (2012年9月19-21日)

(36) Seiya Kobatake

Rapidly photoresponsive molecular machinery of photochromic diarylethene Crystals
26th International Conference on Photochemistry (ICP 2013), *Preprints* p.45 (Leuven, Belgium, July 21-26, 2013).

(37) Seiya Kobatake

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International Symposium on Green Photonics 2014 (Nara Institute of Science and Technology, February 26, 2014).

(38) Seiya Kobatake, Daichi Kitagawa

Photoresponsive Molecular Machinery of Photochromic Diarylethene Crystals, OC-CGOM-31
Joint Congress of Asian Crystallization Technology Symposium-2014 (ACTS-2014) and 11th International Workshop on Crystal Growth of Organic Materials (CGOM11) (Nara, June 17-20, 2014).

(39) Seiya Kobatake

Photomechanical Actuators for Next Generation Intelligent Materials
The 2014 OCARINA Annual International Meeting (Osaka City University, March 4-5, 2015).

(40) 小畠誠也

光応答性フォトクロミック化合物の特徴とその応用
大阪市立大学大学院工学研究科 第62回「オープン・ラボラトリ」 (大阪産業創造館, 2015年4月10日)

(41) 小畠誠也

発光・発色材料の新技術
大阪市立科学館 友の会 特別講演会 (大阪市立科学館, 2015年5月16日)

(42) 小畠誠也

光応答性有機分子結晶の光化学と固体物性変化 (光化学協会賞 受賞講演), 1AL04
2015年光化学討論会 (大阪市立大学, 2015年9月9-11日)

(43) 小畠誠也

光スタート型低温温度上昇感知センサー
第5回関西ものづくり技術シーズ発表会 (追手門学院 大阪城スクエア 大手前ホール, 2016年2月8日)

(44) Seiya Kobatake

Photomechanical Actuators of Photochromic Crystals
7th OCARINA International Symposium in conjunction with Symposium in honor of Distinguished Professor Michael Nobel (Osaka City University, March 17-18, 2016)

(45) 小畠誠也

高次光励起による光応答性分子結晶のフォトメカニカル新現象の開拓（特別企画）

日本化学会第 96 春季年会（同志社大学京田辺キャンパス, 2016 年 3 月 24-27 日）

(46) 小畠誠也

光をあてると、色づく・曲がる・ねじれる有機結晶材料

第 6 回 CSJ 化学フェスタ 2016 (タワーホール船堀, 2016 年 11 月 14-16 日)

(47) 小畠誠也

光スタート型低温温度上昇センサー分子の開発

科学技術振興機構 スマートテクノロジー新技術説明会（東京・市ヶ谷 JST 東京本部別館, 2016 年 11 月 29 日）

(48) 小畠誠也

有機フォトクロミック結晶の光化学

第 7 回フッ素化学若手の会（湯の花温泉渓山閣（京都府亀岡市）, 2017 年 8 月 21-22 日）

(49) 小畠誠也

有機分子結晶の光化学：光駆動分子マシンからマイクロマシンまで

光化学基礎講座 19：光化学の基礎概念と実験技術 2017（特別講演）(大阪大学豊中キャンパス, 基礎工学部国際棟(シグマホール) (豊中市), 2017 年 10 月 4 日)

(50) 小畠誠也

光機能性有機結晶の微小フォトアクチュエータへの展開

第 225 回フォトポリマー懇話会講演会—最先端光機能材料・物性 (I-site なんば (大阪市浪速区), 2018 年 1 月 26 日)

(51) 小畠誠也

光に応答する微小なフォトメカニカル結晶材料, 4S6-03

日本化学会第 98 春季年会（日本大学理工学部船橋キャンパス, 2018 年 3 月 20-23 日）

(52) Seiya Kobatake

Photoinduced Crystal Shape Change of Photochromic Diarylethene Crystals (Plenary Lecture, PS-5)

13th International Workshop on Crystal Growth of Organic Materials (CGOM13) (Seoul, Korea, August 27-30, 2018).

(53) 小畠 誠也

フォトクロミック結晶の光化学と固体物性変化（特別講演, 3-I-06）

第 61 回放射線化学討論会（大阪市立大学杉本キャンパス（大阪市住吉区）, 2018 年 9 月 26-28 日）

(54) 小畠 誠也

ジアリールエテン結晶のフォトクロミズムと機能発現（特別講演）

光化学基礎講座 20：光化学の基礎概念と実験技術 2018 (大阪大学豊中キャンパス, 基礎工学部国際棟(シグマホール) (豊中市), 2018 年 10 月 3 日)

(55) 小畠 誠也

光で結晶を曲げる, C1-04（招待講演）

第 8 回 CSJ 化学フェスタ 2018 (タワーホール船堀, 2018 年 10 月 23-25 日)

(56) Seiya Kobatake, Daichi Kitagawa

Photochromic Diarylethene Crystals That Exhibit Unusual Photomechanical Behavior (Invited Lecture, S7-I-2)

10th Asian Photochemistry Conference (APC 2018) (Taipei, Taiwan, December 16-20, 2018).

(57) 小畠 誠也

フォトクロミック分子結晶のフォトメカニカル挙動

第 10 回 OCARINA 国際シンポジウム（大阪市立大学 学術情報総合センター, 2019 年 3 月 5-6 日）

(58) 小畠 誠也

光で駆動する有機分子結晶フォトアクチュエーターの機能（依頼講演）

大阪市立大学大学院工学研究科 第 78 回「オープン・ラボラトリー」（大阪産業創造館, 2019 年 4 月 26 日）

- (59) Seiya Kobatake
Unusual Photomechanical Behavior of Photochromic Diarylethene Crystals (Invited, Th1)
24th International Conference on the Chemistry of the Organic Solid State (ICCOSS XXVI 2019)
(New York, U.S.A., June 16-21, 2019).
- (60) 小畠誠也
有機結晶のフォトクロミズムと固体光化学 (特別講演)
光化学基礎講座 21: 光化学の基礎概念と実験技術 2019 (大阪市立大学文化交流センターホール (大阪市), 2019 年 10 月 3-4 日)
- (61) 小畠誠也
光化学の応用
光化学基礎講座 22: 光化学の基礎概念と実験技術 2020 (web 開催, 2020 年 10 月 15-16 日)
- (62) Seiya Kobatake
Photoresponsive Diarylethene Molecular Crystals for Photoactuators (Invited, F.EL05.01.01)
2020 MRS Fall Meeting (Virtual, November 27-December 4, 2020)
- (63) 小畠誠也
光化学の応用
光化学基礎講座 23: 光化学の基礎概念と実験技術 2021 (web 開催, 2021 年 10 月 4-5 日)
- (64) 小畠誠也
フォトクロミック材料が使えるのか? 紫外線センサー・温度センサー・フォトアクチュエーター (招待講演)
センサネットワークによるスマートソサエティーの実現に向けて, 近畿化学協会機能性色素部会・同 エレクトロニクス部会 合同公開講演会 (web 開催, 2021 年 10 月 26 日)
- (65) Seiya Kobatake
Photochromic molecular crystals: From color change to photoactuator (Invited)
2021 International Chemical Congress of Pacific Basin Societies (Pacificchem 2021) (Virtual, December 16-21, 2021)
- (66) Seiya Kobatake
Photochromic diarylethene crystals for photoresponsive actuators (Invited)
2021 International Chemical Congress of Pacific Basin Societies (Pacificchem 2021) (Virtual, December 16-21, 2021)
- (67) 小畠誠也
フォトクロミック分子を用いた分子センサーとフォトアクチュエーター (招待講演)
第 175 回ラドテック研究会講演会 (web 開催, 2022 年 4 月 27 日)
- (68) 小畠誠也
光や熱に応答するフォトクロミック分子センサー (依頼講演)
第 90 回オープン・ラボラトリ (大阪産業創造館, 2022 年 10 月 14 日)
- (69) 小畠誠也
光化学の応用
光化学基礎講座 24: 光化学の基礎概念と実験技術 2022 (web 開催, 2022 年 10 月 17-18 日)
- (70) 小畠誠也
光化学の応用
光化学基礎講座 25: 光化学の基礎概念と実験技術 2023 (web 開催, 2023 年 10 月 10-11 日)
- (71) Seiya Kobatake
Usual and unusual photomechanical behaviors of photochromic diarylethene crystals (Invited, IL16)
10th International Symposium on Photochromism (ISOP2023) (Nara Prefectural Convention Center, Nara, Japan, November 7-10, 2023)