

恩田 健 (公募 B 班)

2019 年度 会議発表

1. Ken Onda, “Structural dynamics upon singlet-triplet conversion for developing efficient luminescent materials in organic light emitting diodes”, The 10th Shanghai-Tokyo Advanced Research Symposium on Ultrafast Intense Laser Science (STAR10), (Chengdu, China, 6/1/2019) Invited
2. Kiyoshi Miyata, X.-Y. Zhu, “Unique Dielectric Responses in Lead-halide Perovskites: Proposal of Ferroelectric Polaron”, 11-th International Symposium on Ultrafast Surface Dynamics, (Zhejiang, China, 6/11/2019)
3. Masaki Saigo, Kiyoshi Miyata, Hajime Nakanotani, Chihaya Adachi, Ken Onda, “Structural relaxation along with S1-T1 conversion in carbazol-benzonitrile derivatives”, 11-th International Symposium on Ultrafast Surface Dynamics, (Zhejiang, China, 6/8/2019)
4. Shiori Miyazaki, Kiyoshi Miyata, Yuichi Kitagawa, Yasuchika Hasegawa, Ken Onda, “Tracking energy transfer dynamics in luminescent Eu³⁺ complex”, 11-th International Symposium on Ultrafast Surface Dynamics, (Zhejiang, China, 6/9/2019)
5. Kiyoshi Miyata, Ken Onda, “Real-time observation of ultrafast structural dynamics in functional molecules using time-resolved infrared spectroscopy”, 15th International Workshop on Supramolecular Nanoscience of Chemically Programmed Pigments, (Kusatsu, Japan, 6/15/2019) Invited
6. 恩田 健, “時間分解赤外振動分光を用いた固体中の動的過程の解明”, ソフトクリスタル・インキュベーションミーティング, (東京, 日本, 7/11/2019) Invited
7. Ken Onda, “Time-resolved Infrared Spectroscopy for Exploring Photofunctions in Softcrystals”, The 2nd International Symposium of Soft Crystals, (Narita, Japan, 7/12/2019) Invited
8. 宮田潔志、恩田健, “超高速振動分光で見る光機能性材料の励起状態ダイナミクス：協奏的に生じる電子／構造ダイナミクスの理解を目指して”, (九重, 日本, 7/14/2019) Invited
9. Ryuta Okabayashi, Kiyoshi Miyata, Hiroyuki Takeda, Osamu Ishitani, Ken Onda, “Investigation of structural dynamics of homoleptic and heteroleptic Cu(I) complex using time-resolved infrared spectroscopy”, The 23th International Symposium on the Photochemistry and Photophysics of Coordination Compounds, (Hong Kong, Hong Kong, 7/15/2019)
10. Yuushi Shimoda, Kiyoshi Miyata, Tatsuki Morimoto, Osamu Ishitani, Tamaki Yuusuke, and Ken Onda, “Correlation between structural dynamics and photophysical

- properties in Rhenium (I) diimine biscarbonyl complexes studied by time-resolved infrared spectroscopy”, The 23th International Symposium on the Photochemistry and Photophysics of Coordination Compounds, (Hong Kong, Hong Kong, 7/16/2019)
11. 宮崎 栞, 西郷 将生, 宮田 潔志, 恩田 健, “時間分解赤外分光および発光分光による発光材料の励起状態ダイナミクスの解明”, (唐津, 日本, 7/26/2019)
 12. Kiyoshi Miyata, Masaki Saigo, Yuushi Shimoda, Hajime Nakanotani, Chihaya Adachi, Yuki Kurashige, Kazuya Watanabe, Yoshiyasu Matsumoto, Ken Onda, “Real-time observation of concerted electron-phonon dynamics in organic materials for optoelectronics”, CEMS topical meeting on Organic Photoelectronics, (和光市, Japan, 7/25/2019) Invited
 13. Masaki Saigo, Kiyoshi Miyata, Hajime Nakanotani, Chihaya Adachi, Ken Onda, “Structural relaxation upon S1-T1 conversion and thermally activated delayed fluorescence in carbazole-benzonitrile derivatives”, CEMS topical meeting on Organic Photoelectronics, (和光市, Japan, 7/25/2019)
 14. 宮田 潔志, 西郷 将生, 下田 侑史, 中野 谷一, 安達 千波矢, 恩田 健, “超高速分光で探る熱活性化遅延蛍光材料の光励起構造ダイナミクスと発光特性の関連”, 第 31 回配位化合物の光化学討論会, (富山, 日本, 8/5/2019)
 15. 田中 孝記, 宮田 潔志, 福本 恵紀, 中野 義明, 矢持 秀起, 腰原 伸也, 恩田 健, “時間分解光電子顕微鏡による有機導電体(EDO-TTF)2PF6 の光誘起相転移の観測”, 第 31 回配位化合物の光化学討論会, (富山, 日本, 8/4/2019)
 16. 宮崎 栞, 宮田 潔志, 西郷 将生, 坂本 陽菜, 鈴江 郁哉, 北川 裕一, 長谷川 靖哉, 恩田 健, “時間分解発光分光を用いた Eu(III)錯体の分子内エネルギー移動ダイナミクスの研究”, 第 31 回配位化合物の光化学討論会, (富山, 日本, 8/4/2019)
 17. Ken Onda, “Principles and applications of time-resolved infrared spectroscopy”, 24th International Krutyn Summer School 2019, MAZUR-SYRENKA, (Krutyn, Poland, 9/2/2019) Invited
 18. Masaki Saigo, Kiyoshi Miyata, Hajime Nakanotani, Chihaya Adachi, Ken Onda, “Suppression of structural change assists thermally activated delayed fluorescence in carbazole-benzonitrile derivatives”, 24th International Krutyn Summer School 2019, MAZUR-SYRENKA, (Krutyn, Poland, 9/4/2019)
 19. Shiori Miyazaki, Kiyoshi Miyata, Yuichi Kitagawa, Yasuchika Hasegawa, Ken Onda, “Tracking energy transfer dynamics in Eu(III) complexes with phosphine-oxide bridges”, 24th International Krutyn Summer School 2019, MAZUR-SYRENKA, (Krutyn, Poland, 9/4/2019)
 20. 宮田 潔志, Xiaoyang Zhu, 恩田 健, “超高速分光で検出する分子性材料の超高速電子／構造ダイナミクス”, 第 80 回応用物理学会秋季学術講演会, (北海道, 日本,

9/18/2019) Invited

21. 西郷 将生, 宮田 潔志, 中野谷 一, 安達 千波矢, 恩田 健, “カルバゾールベンゾニトリル誘導体の励起状態における構造変化抑制と熱活性化遅延蛍光”, 第 80 回応用物理学会秋季学術講演会, (北海道, 日本, 9/18/2019)
22. 久保功貴, 宮田潔志, 小村真央, 谷洋介, 小川琢治, 恩田健, “時間分解振動分光によるメカノクロミック有機室温燐光材料の研究”, 第 2 回革新的物質変換・ソフトクリスタル新学術領域合同シンポジウム, (北海道, 日本, 11/1/2019)
23. 坂本陽菜, 宮崎栞, 宮田潔志, 鈴江郁哉, 北川裕一, 長谷川靖哉, 恩田健, “Tb(III)錯体の分子内エネルギー移動ダイナミクスの解明”, 第 2 回革新的物質変換・ソフトクリスタル新学術領域合同シンポジウム, (北海道, 日本, 11/1/2019)
24. 宮崎栞, 坂本陽菜, 宮田潔志, 鈴江郁哉, 北川裕一, 長谷川靖哉, 恩田健, “発光性希土類錯体の配位子立体構造とエネルギー移動機構の相関”, 第 2 回革新的物質変換・ソフトクリスタル新学術領域合同シンポジウム, (北海道, 日本, 11/1/2019)
25. 恩田 健, “時間分解赤外分光の基礎と光機能性材料開発への応用”, 光化学応用講座 2019 – 時間分解分光の新展開: 原理から先端応用まで –, (東京, 日本, 12/6/2019)
Invited
26. 宮田潔志, “鉛ハライドペロブスカイトの階層的構造ダイナミクスと電子物性”, 理研セミナー, (和光市, 日本, 12/16/2019) Invited
27. 宮田潔志, “時間分解発光分光の基礎: 測定とデータ解釈の注意点”, 第 2 回光機能ミニセミナー, (東京, 日本, 12/20/2019) Invited
28. Ken Onda, “Analysis of Photofunctional Materials Using Time-resolved Infrared Spectroscopy”, New Trends in Photophysics of Photochemistry and their Applications, (Fukuoka, Japan, 1/11/2020) Plenary
29. Shiori Miyazaki, Haruna Sakamoto, Kiyoshi Miyata, Fumiya Suzue, Yuichi Kitagawa, Yasuchika Hasegawa, Ken Onda, “Correlation between ligand conformation and intramolecular energy transfer mechanism of lanthanide complexes”, New Trends in Photophysics of Photochemistry and their Applications, (Fukuoka, Japan, 1/11/2020)
Invited
30. Kiyoshi Miyata, Onda Ken, “Direct observation of ultrafast structural dynamics of emergent materials for optoelectronics”, The 11th Asian Conference on Ultrafast Phenomena, (Shanghai, China, 1/14/2020) Invited
31. Tomohiro Ryu, Yuushi Shimoda, Masaki Saigo, Ryota Fukuda, Kiyoshi Miyata, Youichi Tsuchiya, Hajime Nakanotani, Chihaya Adachi, Ken Onda, “Elucidation of excited state structural dynamics of thermally activated delayed fluorescence molecule with dual emission”, 日本化学会第 100 回春季年会 2020, (千葉, 日本, 3/25/2020)
32. S. Miyazaki, H. Sakamoto, K. Miyata, F. Suzue, Y. Kitagawa, Y. Hasegawa, K. Onda,

“Correlation between geometry of ligands and energy transfer mechanism of Eu(III) complex using antenna effect”, 日本化学会第 100 回春季年会 2020, (千葉, 日本, 3/25/2020)

33. 宮崎菜, 坂本陽菜, 宮田潔志, 鈴江郁哉, 北川裕一, 長谷川靖哉, 恩田健, “アンテナ効果を用いた Eu(III)錯体の配位子立体構造とエネルギー移動機構の相関”, 日本化学会第 100 回春季年会 2020, (千葉, 日本, 3/22/2020)
34. Raj Kumar Koninti, Masaki Saigo, Youichi Tsuchiya, Hajime Nakanotani, Chihaya Adachi, Ken Onda, “Mechanisms of thermally activated delayed fluorescence controlled by structural restriction”, 日本化学会第 100 回春季年会 2020, (千葉, 日本, 3/25/2020)