

(1) 原著論文 (accept) を含む / Original Papers

1. Renilkumar Mudachathi and Takuo Tanaka, "Up Scalable Full Colour Plasmonic Pixels with Controllable Hue, Brightness and Saturation," Scientific Reports (**accepted for publication**) (2017).
2. Yi-Hao Chen, Che-Chin Chen, Atsushi Ishikawa, Ming-Hua Shiao, Yu-Shin Lin, Chien-Nan Hsiao, Hai-Pang Chiang, and Takuo Tanaka, "Interplay of mutual electric and magnetic couplings between three-dimensional split-ring resonators," Optics Express 25, 3, pp. 2909-2917 (DOI: 10.1364/OE.25.002909) (2017).
3. Ahmed Abumazwed, Wakana Kubo, Chen Shen, Takuo Tanaka, and Andrew G. Kirk, "Projection method for improving signal to noise ratio of localized surface plasmon resonance biosensors," Biomedical Optics Express 8, 446-459 (DOI: 10.1364/BOE.8.000446) (2016).
4. Renilkumar Mudachathi and Takuo Tanaka, "Broadband plasmonic perfect light absorber in the visible spectrum for solar cell applications," Advances in Natural Sciences: Nanoscience and Nanotechnology (**accepted for publication**) (2016).
5. Yukie Yokota, Kosei Ueno, Hiroaki Misawa, and Takuo Tanaka, "Spectroscopic Properties of Gold Curvilinear Nanorod Arrays," Photonics 3, 18 (2016).
6. Toru Kanazawa, Tomohiro Amemiya, Atsushi Ishikawa, Vikrant Upadhyaya, Kenji Tsuruta, Takuo Tanaka, and Yasuyuki Miyamoto, "Few-layer HfS₂ transistors," Scientific Reports 6, 22277 (DOI: doi:10.1038/srep22277) (2016).

(2) 著書・解説など / Book Editions, Review Papers

1. 田中拓男, "光メタマテリアル入門," 丸善出版(株) (2016).
2. 田中拓男, "光メタマテリアルの今," 光技術コンタクト 54, 11, pp. 4-10 (2016).
3. 田中拓男, "等方性3次元メタマテリアルとその加工法," 応用物理 85, 1, pp. 38-42 (2016).

(3) 招待講演 / Invited Talks

1. Takuo Tanaka, "Metamaterial absorber for molecular detection and identification," SPIE Photonics West 2017 LASE (The Moscone Center, San Francisco, USA) (2017.1.31) (2017).
2. 田中拓男, "吸収メタマテリアルを用いた自己組織化単分子膜の赤外検出," 2016年真空・表面科学合同講演会, 名古屋国際会議場, 12月1日, (2016).
3. Takuo Tanaka, "Metamaterial absorber and its application for attomole level molecular detection," Global Nanophotonics 2016, Osaka, Japan, November 30, (2016).

4. 田中拓男, "赤外吸収メタマテリアルとその赤外分光法への応用," 分子キラリティー研究センターシンポジウム, 千葉大学, 11月25日, (2016).
5. 田中拓男, "赤外吸収メタマテリアル," 第6回 可視赤外線観測装置技術ワークショップ, 国立天文台三鷹, 11月24日, (2016).
6. Takuo Tanaka, "Dark metamaterials and their application for attomole molecular detection," 8th International Workshop on Advanced Materials Science and Nanotechnology 2016 (IWAMSN2016), Ha Long City, Vietnam, November 8, (2016).
7. 田中拓男, "3次元赤外メタマテリアルとその応用," 第131回 日本学術振興会 第142委員会「メタマテリアルによるフォトニクス」, 東京理科大, 東京, 9月9日, (2016).
8. Takuo Tanaka and Atsushi Ishikawa, "3D Metamaterial absorber for attomole molecular detection," SPIE Optics+Photonics 2016, San Diego Convention Center, San Diego, USA, August 28, (2016).
9. Takuo Tanaka, "Metamaterial absorber and its application for attomole molecular detection," The 1st A3 Metamaterials Forum, Tohoku University, Sendai, Miyagi, Japan, July 5, (2016).
10. Takuo Tanaka and Atsushi Ishikawa, "Metamaterial infrared absorber and its application for attomole detection of organic molecules," 2016 MRS Spring Meeting & Exhibit, Phoenix, Arizona, USA, April 1, (2016).
11. Takuo Tanaka and Atsushi Ishikawa, "Metamaterial absorber for attomole level molecular detection," The 9th International Conference on Nanophotonics (ICNP2016), Academia Sinica, Taipei, Taiwan, March 23, (2016).

(4) 会議、シンポジウム、セミナー主催 / Meeting, Symposiums and Seminars

1. The 1st RIKEN-nCOMS Joint Symposium and RIKEN Metamaterials Symposium, Wako, Japan, December 12, (2016).

(5) 特許出願 / Patent Applications

1. Takuo Tanaka and Atsushi Ishikawa, "Metamaterial Absorbers for Infrared Detection of Molecular Self-Assembled Monolayers", PCT/JP2016/70199 (2016.7.7).
2. 杉田丈也, 田中拓男, "可視光メタマテリアル用の単位共振器および共振器アレイ," 特願 2016-091854 (2016.4.28).
3. 杉田丈也, 田中拓男, "反射角度制御可透明材," 特願 2016-089567 (2016.4.27).
4. 杉田丈也, 田中拓男, "反射角度制御可透明材," 特願 2016-088577 (2016.4.26).