

Contents

About the Special Issue Editor	vii
Grégory Barbillon Plasmonics and its Applications Reprinted from: <i>Materials</i> 2019 , <i>12</i> , 1502, doi:10.3390/ma12091502	1
Tracy M. Mattox, D. Keith Coffman, Inwhan Roh, Christopher Sims and Jeffrey J. Urban Moving the Plasmon of LaB ₆ from IR to Near-IR via Eu-Doping Reprinted from: <i>Materials</i> 2018 , <i>11</i> , 226, doi:10.3390/ma11020226	5
Tracy M. Mattox and Jeffrey J. Urban Tuning the Surface Plasmon Resonance of Lanthanum Hexaboride to Absorb Solar Heat: A Review Reprinted from: <i>Materials</i> 2018 , <i>11</i> , 2473, doi:10.3390/ma11122473	13
Yoichi Ogata, Anatoliy Vorobyev and Chunlei Guo Optical Third Harmonic Generation Using Nickel Nanostructure-Covered Microcube Structures Reprinted from: <i>Materials</i> 2018 , <i>11</i> , 501, doi:10.3390/ma11040501	28
Ali Hajjiah, Ishac Kandas and Nader Shehata Efficiency Enhancement of Perovskite Solar Cells with Plasmonic Nanoparticles: A Simulation Study Reprinted from: <i>Materials</i> 2018 , <i>11</i> , 1626, doi:10.3390/ma11091626	34
Yang Li and Minghui Hong Diffractive Efficiency Optimization in Metasurface Design via Electromagnetic Coupling Compensation Reprinted from: <i>Materials</i> 2019 , <i>12</i> , 1005, doi:10.3390/ma12071005	48
Guowei Lu, Jianning Xu, Te Wen, Weidong Zhang, Jingyi Zhao, Aiqin Hu, Grégory Barbillon and Qihuang Gong Hybrid Metal-Dielectric Nano-Aperture Antenna for Surface Enhanced Fluorescence Reprinted from: <i>Materials</i> 2018 , <i>11</i> , 1435, doi:10.3390/ma11081435	57
Giovanni Magno, Benoit Bélier and Grégory Barbillon Al/Si Nanopillars as Very Sensitive SERS Substrates Reprinted from: <i>Materials</i> 2018 , <i>11</i> , 1534, doi:10.3390/ma11091534	67
Andrey K. Sarychev, Andrey Ivanov, Andrey Lagarkov and Grégory Barbillon Light Concentration by Metal-Dielectric Micro-Resonators for SERS Sensing Reprinted from: <i>Materials</i> 2019 , <i>12</i> , 103, doi:10.3390/ma12010103	76
Angéline D'Orlando, Maxime Bayle, Guy Louarn and Bernard Humbert AFM-Nano Manipulation of Plasmonic Molecules Used as "Nano-Lens" to Enhance Raman of Individual Nano-Objects Reprinted from: <i>Materials</i> 2019 , <i>12</i> , 1372, doi:10.3390/ma12091372	115
Xue Han, Kun Liu and Changsen Sun Plasmonics for Biosensing Reprinted from: <i>Materials</i> 2019 , <i>12</i> , 1411, doi:10.3390/ma12091411	129

Christophe Humbert, Thomas Noblet, Laetitia Dalstein, Bertrand Busson and Grégory Barbillon	
Sum-Frequency Generation Spectroscopy of Plasmonic Nanomaterials: A Review	
Reprinted from: <i>Materials</i> 2019 , <i>12</i> , 836, doi:10.3390/ma12050836	153
Palaniappan Subramanian, Dalila Meziane, Robert Wojcieszak, Franck Dumeignil, Rabah Boukherroub and Sabine Szunerits	
Plasmon-Induced Electrocatalysis with Multi-Component Nanostructures	
Reprinted from: <i>Materials</i> 2019 , <i>12</i> , 43, doi:10.3390/ma12010043	175