

Contents

About the Special Issue Editor	vii
Johannes Kiefer	
Optics and Spectroscopy for Fluid Characterization Reprinted from: <i>Appl. Sci.</i> 2018 , <i>8</i> , 828, doi: 10.3390/app8050828	1
Andreas Fischer	
Imaging Flow Velocimetry with Laser Mie Scattering Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 1298, doi: 10.3390/app7121298	4
Weijie Yan, Chun Lou, Qiang Cheng, Peitao Zhao and Xiangyu Zhang	
In Situ Measurement of Alkali Metals in an MSW Incinerator Using a Spontaneous Emission Spectrum Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 263, doi: 10.3390/app7030263	35
Anton Shutov, Dmitry Pestov, Narangerel Altangerel, Zhenhuan Yi, Xi Wang, Alexei V. Sokolov and Marlan O. Scully	
Collinear FAST CARS for Chemical Mapping of Gases Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 705, doi: 10.3390/app7070705	47
Johannes Kiefer, Mohd Nazren Radzuan and James Winterburn	
Infrared Spectroscopy for Studying Structure and Aging Effects in Rhamnolipid Biosurfactants Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 533, doi: 10.3390/app7050533	55
Mingjie Tang, Liangping Xia, Dongshan Wei, Shihan Yan, Chunlei Du and Hong-Liang Cui	
Distinguishing Different Cancerous Human Cells by Raman Spectroscopy Based on Discriminant Analysis Methods Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 900, doi: 10.3390/app7090900	62
Zhiqin Zhu, Guanqiu Qi, Yi Chai, and Penghua Li	
A Geometric Dictionary Learning Based Approach for Fluorescence Spectroscopy Image Fusion Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 161, doi: 10.3390/app7020161	71
Johannes Kiefer, Johan Zetterberg, Andreas Ehn, Jonas Evertsson, Gary Harlow and Edvin Lundgren	
Infrared Spectroscopy as Molecular Probe of the Macroscopic Metal-Liquid Interface Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 1229, doi: 10.3390/app7121229	89
Hai-Chou Chang, Teng-Hui Wang and Christopher M. Burba	
Probing Structures of Interfacial 1-Butyl-3-Methylimidazolium Trifluoromethanesulfonate Ionic Liquid on Nano-Aluminum Oxide Surfaces Using High-Pressure Infrared Spectroscopy Reprinted from: <i>Appl. Sci.</i> 2017 , <i>7</i> , 855, doi: 10.3390/app7080855	96
Gerardo Perozziello, Patrizio Candeloro, Maria Laura Coluccio, Godind Das, Loredana Rocca, Salvatore Andrea Pullano, Antonino Secondo Fiorillo, Mario De Stefano and Enzo Di Fabrizio	
Nature Inspired Plasmonic Structures: Influence of Structural Characteristics on Sensing Capability Reprinted from: <i>Appl. Sci.</i> 2018 , <i>8</i> , 668, doi: 10.3390/app8050668	107