

Bettina Baumgartner

List of Publications by Year in descending order

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papers

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623734

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docs citations

29
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Geomimetics for green polymer synthesis: highly ordered polyimides via hydrothermal techniques. <i>Polymer Chemistry</i> , 2014, 5, 3771-3776.	3.9	74
2	Towards a general understanding of hydrothermal polymerization of polyimides. <i>Polymer Chemistry</i> , 2015, 6, 5773-5781.	3.9	46
3	Green and highly efficient synthesis of perylene and naphthalene bisimides in nothing but water. <i>Chemical Communications</i> , 2017, 53, 1229-1232.	4.1	41
4	Pore Size-Dependent Structure of Confined Water in Mesoporous Silica Films from Water Adsorption/Desorption Using ATR-FTIR Spectroscopy. <i>Langmuir</i> , 2019, 35, 11986-11994.	3.5	38
5	Ultra-sensitive refractive index gas sensor with functionalized silicon nitride photonic circuits. <i>APL Photonics</i> , 2020, 5, 081301.	5.7	33
6	In Situ Pt Photodeposition and Methanol Photooxidation on Pt/TiO ₂ : Pt-Loading-Dependent Photocatalytic Reaction Pathways Studied by Liquid-Phase Infrared Spectroscopy. <i>ACS Catalysis</i> , 2020, 10, 2964-2977.	11.2	33
7	In Situ IR Spectroscopy of Mesoporous Silica Films for Monitoring Adsorption Processes and Trace Analysis. <i>ACS Applied Nano Materials</i> , 2018, 1, 7083-7091.	5.0	28
8	Design Strategies in Hydrothermal Polymerization of Polyimides. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 485-500.	2.2	25
9	Mesoporous silica films for sensing volatile organic compounds using attenuated total reflection spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127194.	7.8	20
10	Green one-pot synthesis and processing of polyimide-silica hybrid materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16326-16335.	10.3	19
11	Mid-IR sensing platform for trace analysis in aqueous solutions based on a germanium-on-silicon waveguide chip with a mesoporous silica coating for analyte enrichment. <i>Optics Express</i> , 2020, 28, 27013.	3.4	19
12	3D Printing for Low-Cost and Versatile Attenuated Total Reflection Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 4736-4741.	6.5	17
13	Multiplex volatile organic compound Raman sensing with nanophotonic slot waveguides functionalized with a mesoporous enrichment layer. <i>Optics Letters</i> , 2020, 45, 447.	3.3	17
14	Mid-infrared sensing of CO at saturated absorption conditions using intracavity quartz-enhanced photoacoustic spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 159.	2.2	16
15	Anomalous Humidity Dependence in Photoacoustic Spectroscopy of CO Explained by Kinetic Cooling. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 843.	2.5	15
16	A pocket-sized 3D-printed attenuated total reflection-infrared filterometer combined with functionalized silica films for nitrate sensing in water. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127847.	7.8	13
17	Infrared crystallography for framework and linker orientation in metal-organic framework films. <i>Chemical Science</i> , 2021, 12, 9298-9308.	7.4	12
18	In-Depth Study of Coating Multimodal Porosity Using Ellipsometry Porosimetry in Desorption Scanning Mode. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23464-23479.	3.1	11

#	ARTICLE	IF	CITATIONS
19	Porous titanium and zirconium oxo carboxylates at the interface between sol-gel and metal-organic framework structures. Dalton Transactions, 2014, 43, 950-957.	3.3	9
20	An Acoustic Trap for Bead Injection Attenuated Total Reflection Infrared Spectroscopy. Analytical Chemistry, 2019, 91, 7672-7678.	6.5	8
21	Guest Alignment and Defect Formation during Pore Filling in Metal-Organic Framework Films. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
22	Ultra-sensitive slot-waveguide-enhanced Raman spectroscopy for aqueous solutions of non-polar compounds using a functionalized silicon nitride photonic integrated circuit. Optics Letters, 2021, 46, 1153.	3.3	7
23	Mesoporous Zirconia Coating for Sensing Applications Using Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy. Applied Spectroscopy, 2022, 76, 141-149.	2.2	7
24	A thermoelectrically stabilized aluminium acoustic trap combined with attenuated total reflection infrared spectroscopy for detection of <i>Escherichia coli</i> in water. Lab on A Chip, 2021, 21, 1811-1819.	6.0	2
25	Waveguide-Enhanced Raman Spectroscopy Using a Mesoporous Silica Sorbent Layer for Volatile Organic Compound (VOC) Sensing. , 2019, , .		0
26	Integrated Mid-IR Waveguide Sensor for Laser Based Trace Analysis in Aqueous Solutions. , 2020, , .		0
27	Porous Silica Enrichment Films on Integrated Waveguides for Broadband Mid-IR Spectroscopic Trace Analysis. , 2021, , .		0
28	Ultra-sensitive silicon nitride waveguide-enhanced Raman spectroscopy for aqueous solutions of organic compounds. , 2020, , .		0
29	Guest Alignment and Defect Formation during Pore Filling in Metal-Organic Framework Films. Angewandte Chemie, 0, , .	2.0	0