Karsten Rebner

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4108505/publications.pdf

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27	434	933447 10	752698 20
papers	citations	h-index	g-index

30	30	30	547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyperspectral Imaging: A Review of Best Practice, Performance and Pitfalls for in-line and on-line Applications. Journal of Near Infrared Spectroscopy, 2012, 20, 483-508.	1.5	127
2	Process analytical techniques for hot-melt extrusion and their application to amorphous solid dispersions. Analytical and Bioanalytical Chemistry, 2017, 409, 4321-4333.	3.7	40
3	Oxygen plasma surface treatment of polymer filmsâ€"Pellethane 55DE and EPR-g-VTMS. Applied Surface Science, 2021, 536, 147782.	6.1	29
4	A novel LEDâ€based 2Dâ€fluorescence spectroscopy system for inâ€line monitoring of Chinese hamster ovary cell cultivations â€“ Part I. Engineering in Life Sciences, 2019, 19, 352-362.	3.6	25
5	Dark-field scattering microscopy for spectral characterization of polystyrene aggregates. Optics Express, 2010, 18, 3116.	3.4	24
6	Penetration of Light into Multiple Scattering Media: Model Calculations and Reflectance Experiments. Part I: The Axial Transfer. Applied Spectroscopy, 2012, 66, 934-943.	2.2	22
7	A Process Analytical Concept for In-Line FTIR Monitoring of Polysiloxane Formation. Polymers, 2020, 12, 2473.	4.5	17
8	Elastic and inelastic light scattering spectroscopy and its possible use for label-free brain tumor typing. Analytical and Bioanalytical Chemistry, 2017, 409, 6613-6623.	3.7	12
9	Direct optical detection of cell density and viability of mammalian cells by means of UV/VIS spectroscopy. Analytical and Bioanalytical Chemistry, 2020, 412, 3359-3371.	3.7	12
10	Penetration of Light into Multiple Scattering Media: Model Calculations and Reflectance Experiments. Part II: The Radial Transfer. Applied Spectroscopy, 2013, 67, 385-395.	2.2	11
11	Effects of process parameters on silane grafting of liquid ethylene-propylene copolymer by reactive extrusion as quantified by response surface methodology. Polymer, 2020, 202, 122601.	3.8	10
12	Auger electron spectroscopy and UVâ€“Vis spectroscopy in combination with multivariate curve resolution analysis to determine the Cu2O/CuO ratios in oxide layers on technical copper surfaces. Applied Surface Science, 2019, 486, 354-361.	6.1	9
13	Formalin Fixation as Tissue Preprocessing for Multimodal Optical Spectroscopy Using the Example of Human Brain Tumour Cross Sections. Journal of Spectroscopy, 2021, 2021, 1-14.	1.3	9
14	Comparative Raman study of transparent and turbid materials: models and experiments in the remote sensing mode. Analytical and Bioanalytical Chemistry, 2017, 409, 673-681.	3.7	7
15	Pigmentation of White, Brown, and Green Chicken Eggshells Analyzed by Reflectance, Transmittance, and Fluorescence Spectroscopy. ChemistryOpen, 2019, 8, 1084-1093.	1.9	7
16	Characterization of Oxide Layers on Technical Copper Material Using Ultraviolet Visible (UV-Vis) Spectroscopy as a Rapid On-Line Analysis Tool. Applied Spectroscopy, 2019, 73, 59-66.	2.2	7
17	Comparison of Whiskbroom and Pushbroom darkfield elastic light scattering spectroscopic imaging for head and neck cancer identification in a mouse model. Analytical and Bioanalytical Chemistry, 2021, 413, 7363-7383.	3.7	7
18	Hyperspectral backscatter imaging: a label-free approach to cytogenetics. Analytical and Bioanalytical Chemistry, 2016, 408, 5701-5709.	3.7	6

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19	Characterisation of oxide layers on technical copper based on visible hyperspectral imaging. Journal of Spectral Imaging, 0, , .	0.0	5
20	UV Hyperspectral Imaging as Process Analytical Tool for the Characterization of Oxide Layers and Copper States on Direct Bonded Copper. Sensors, 2021, 21, 7332.	3.8	5
21	Simultaneous Determination of Droplet Size, pH Value and Concentration to Evaluate the Aging Behavior of Metalworking Fluids. Sensors, 2021, 21, 8299.	3.8	5
22	Extension of solid immersion lens technology to super-resolution Raman microscopy. Nanospectroscopy, 2014, 1, .	0.7	4
23	Use of Hyperspectral Imaging for the Quantification of Organic Contaminants on Copper Surfaces for Electronic Applications. Sensors, 2021, 21, 5595.	3.8	3
24	Water Jacket Systems for Temperature Control of Petri Dish Cell Culture Chambers. Applied Sciences (Switzerland), 2019, 9, 621.	2.5	2
25	Exploring the hidden depth by confocal Raman experiments with variable objective aperture and magnification. Analytical and Bioanalytical Chemistry, 2021, 413, 7093-7106.	3.7	2
26	Quantifying flux residues after soldering on technical copper using ultraviolet visible (UVâ€“Vis) spectroscopy and multivariate analysis. Microelectronics Reliability, 2021, 125, 114367.	1.7	1
27	Improved Process Control by Using the Effective Scattering Coefficients to Determine the Fat Content in Homogenized Cow-Based Milk with Multivariate Data Modeling. ACS Food Science & Technology, 2022, 2, 548-557.	2.7	1