Cyril Muehlethaler

List of Publications by Year
in descending order

30	906	567281 15	454955 30
papers	citations	h-index	g-index

31	31	31	1417
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of Surface Enhanced Raman Scattering Applications in Forensic Science. Analytical Chemistry, 2016, 88, 152-169.	6.5	248
2	Ultrahigh Raman Enhancement on Monolayer MoS₂. ACS Photonics, 2016, 3, 1164-1169.	6.6	167
3	The application of chemometrics on Infrared and Raman spectra as a tool for the forensic analysis of paints. Forensic Science International, 2011, 209, 173-182.	2.2	103
4	Towards a validation of surface-enhanced Raman scattering (SERS) for use in forensic science: repeatability and reproducibility experiments. Forensic Science International, 2016, 268, 1-13.	2.2	49
5	Discrimination and classification of FTIR spectra of red, blue and green spray paints using a multivariate statistical approach. Forensic Science International, 2014, 244, 170-178.	2.2	32
6	The detection of copper resinate pigment in works of art: contribution from Raman spectroscopy. Journal of Raman Spectroscopy, 2014, 45, 1186-1196.	2.5	31
7	Raman analysis of multilayer automotive paints in forensic science: measurement variability and depth profile. Journal of Raman Spectroscopy, 2014, 45, 1285-1292.	2.5	25
8	Optimizing the analysis of dyes by Surface-Enhanced Raman Spectroscopy (SERS) using a conventional-microwave silver nanoparticles synthesis. Forensic Chemistry, 2019, 16, 100186.	2.8	22
9	Combining spectroscopic data in the forensic analysis of paint: Application of a multiblock technique as chemometric tool. Forensic Science International, 2016, 263, 39-47.	2.2	21
10	Forensic aspects of the weathering and ageing of spray paints. Forensic Science International, 2016, 258, 32-40.	2.2	19
11	Raman and SERS characterization of solvent dyes: An example of shoe polish analysis. Dyes and Pigments, 2017, 137, 539-552.	3.7	19
12	Influence of the shaking time on the forensic analysis of FTIR and Raman spectra of spray paints. Forensic Science International, 2014, 237, 78-85.	2.2	18
13	Survey on batch-to-batch variation in spray paints: A collaborative study. Forensic Science International, 2013, 229, 80-91.	2.2	17
14	Criteria for comparing infrared spectra â€“ A review of the forensic and analytical chemistry literature. Forensic Chemistry, 2020, 18, 100224.	2.8	17
15	An analysis of tetrahydrocannabinol (THC) and its analogs using surface enhanced Raman Scattering (SERS). Chemical Physics, 2020, 536, 110812.	1.9	17
16	Differential shedding: A study of the fiber transfer mechanisms of blended cotton and polyester textiles. Forensic Science International, 2020, 308, 110181.	2.2	16
17	Enhanced Raman spectra of black dye N719 on GaN nanowires. Applied Surface Science, 2018, 457, 809-814.	6.1	11
18	A random object-oriented population study of household paints measured by infrared spectroscopy. Forensic Science International, 2019, 297, 72-80.	2.2	10

#	Article	IF	Citations
19	Collecting data on textiles from the internet using web crawling and web scraping tools. Forensic Science International, 2021, 322, 110753.	2.2	10
20	Sample selfâ€absorption in surfaceâ€enhanced <scp>Raman</scp> spectroscopy (SERS): influence of the resonance, dilution and depth of the measurements. Journal of Raman Spectroscopy, 2017, 48, 647-652.	2.5	9
21	Latent Fingermark Imaging by Single-Metal Deposition of Gold Nanoparticles and Surface Enhanced Raman Spectroscopy. Frontiers in Chemistry, 2019, 7, 440.	3.6	9
22	Evaluation of infrared spectra analyses using a likelihood ratio approach: A practical example of spray paint examination. Science and Justice - Journal of the Forensic Science Society, 2016, 56, 61-72.	2.1	8
23	Competitive Binding Investigations and Quantitation in Surface-Enhanced Raman Spectra of Binary Dye Mixtures. Applied Spectroscopy, 2018, 72, 60-68.	2.2	8
24	Contribution of Raman and Surface Enhanced Raman Spectroscopy (SERS) to the analysis of vehicle headlights: Dye(s) characterization. Forensic Science International, 2018, 287, 98-107.	2.2	5
25	Batch-to-batch variation in domestic paints: Insights into the newly commercialized recycled paints. Forensic Science International, 2019, 303, 109946.	2.2	4
26	Distribution of aerosol paint droplets in open- and closed-space environments: Towards activity level evaluation. Forensic Science International, 2020, 306, 110065.	2.2	3
27	Hyperspectral Raman imaging and multivariate statistical analysis for the reconstruction of obliterated serial numbers in polymers. Journal of Raman Spectroscopy, 2022, 53, 1415-1427.	2.5	3
28	Twoâ€stage approach for the inference of the source ofÂhighâ€dimensional and complex chemical data inÂforensicÂscience. Journal of Chemometrics, 2021, 35, .	1.3	2
29	Evaluation and Examination of a Possible Shoe-polish Trace in a Hold-up Case. Journal of Forensic Science and Medicine, 2016, 2, 233.	0.2	1
30	Le transfert diffÃ©rentiel des fibres de coton et de polyester lors dâ€™agressions au couteau. Journal of the Canadian Society of Forensic Science, 2020, 53, 109-129.	0.9	1