

Raj Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

873
citations

430442

18
h-index

476904

29
g-index

35
all docs

35
docs citations

35
times ranked

508
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemometrics in forensic science. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 191-201.	5.8	140
2	Trends of chemometrics in bloodstain investigations. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 107, 181-195.	5.8	51
3	Soil forensics: A spectroscopic examination of trace evidence. <i>Microchemical Journal</i> , 2018, 139, 74-84.	2.3	49
4	Fourier transform infrared spectroscopy and chemometrics for the characterization and discrimination of writing/photocopier paper types: Application in forensic document examinations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 170, 19-28.	2.0	44
5	Analysis of laser printer and photocopier toners by spectral properties and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 196, 40-48.	2.0	43
6	On the rapid and non-destructive approach for wood identification using ATR-FTIR spectroscopy and chemometric methods. <i>Vibrational Spectroscopy</i> , 2020, 110, 103097.	1.2	43
7	On the spectroscopic investigation of lipstick stains: Forensic trace evidence. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 215, 48-57.	2.0	38
8	A novel combined approach of diffuse reflectance UV-Vis-NIR spectroscopy and multivariate analysis for non-destructive examination of blue ballpoint pen inks in forensic application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 175, 67-75.	2.0	37
9	Dating of ballpoint pen writing inks via spectroscopic and multiple linear regression analysis: A novel approach. <i>Microchemical Journal</i> , 2017, 134, 104-113.	2.3	36
10	Fourier transform infrared spectroscopy and high performance thin layer chromatography for characterization and multivariate discrimination of blue ballpoint pen ink for forensic applications. <i>Vibrational Spectroscopy</i> , 2017, 92, 96-104.	1.2	36
11	On the spectroscopic investigation of Kohl stains via ATR-FTIR and multivariate analysis: Application in forensic trace evidence. <i>Vibrational Spectroscopy</i> , 2019, 101, 81-91.	1.2	32
12	Bloodstain age estimation through infrared spectroscopy and Chemometric models. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2020, 60, 538-546.	1.3	32
13	Discrimination of Various Paper Types Using Diffuse Reflectance Ultraviolet-Visible Near-Infrared (UV-Vis-NIR) Spectroscopy: Forensic Application to Questioned Documents. <i>Applied Spectroscopy</i> , 2015, 69, 714-720.	1.2	29
14	Spectroscopic and chemometric evaluation of cling films used for wrapping of foodstuff and illicit drugs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 206, 558-568.	2.0	29
15	Thermogravimetric analysis and chemometric based methods for soil examination: Application to soil forensics. <i>Forensic Chemistry</i> , 2020, 17, 100191.	1.7	28
16	Chemometric analysis of ATR-FTIR spectra of fingernail clippings for classification and prediction of sex in forensic context. <i>Microchemical Journal</i> , 2020, 159, 105504.	2.3	27
17	Spectral characteristics of organic soil matter: A comprehensive review. <i>Microchemical Journal</i> , 2021, 171, 106836.	2.3	22
18	Differentiation of locally manufactured Kajal by Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy supported by chemometric analysis. <i>Forensic Science International</i> , 2019, 303, 109930.	1.3	21

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19	On the spectroscopic cum chemometric approach for differentiation and classification of inkjet, laser and photocopier printed documents. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2020, 60, 347-357.	1.3	17
20	Chemometrics based ATR-FTIR spectroscopy method for rapid and non-destructive discrimination between eyeliner and mascara traces. <i>Microchemical Journal</i> , 2021, 164, 106080.	2.3	16
21	On the spectroscopic examination of printed documents by using a field emission scanning electron microscope with energy-dispersive X-ray spectroscopy (FE-SEM-EDS) and chemometric methods: application in forensic science. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3477-3495.	1.9	14
22	Analysis of writing/printing paper via Thermogravimetric Analysis: application in forensic science. <i>Australian Journal of Forensic Sciences</i> , 2019, 51, 22-39.	0.7	13
23	On the IR spectroscopy and chemometric based rapid and non-destructive method for the investigation of sunscreen stains: Application in forensic science. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118708.	2.0	13
24	On the discrimination of soil samples by derivative diffuse reflectance UV-Vis-NIR spectroscopy and chemometric methods. <i>Forensic Science International</i> , 2021, 319, 110655.	1.3	13
25	A rapid and non-destructive ATR-FTIR spectroscopy method supported by chemometrics for discriminating between facial creams and the classification into herbal and non-herbal brands. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 258, 119803.	2.0	13
26	Multivariate analysis for forensic characterization, discrimination, and classification of marker pen inks. <i>Spectroscopy Letters</i> , 2018, 51, 205-215.	0.5	9
27	Forensic Examination of Textile Fibers Using UV-Vis Spectroscopy Combined with Multivariate Analysis. <i>Journal of Applied Spectroscopy</i> , 2019, 86, 96-100.	0.3	9
28	PLS-DA and infrared spectroscopy based rapid and non-destructive discrimination of black ball and gel pen inks for forensic application. <i>Forensic Science International: Reports</i> , 2021, 3, 100162.	0.4	8
29	Novel use of logistic regression and likelihood ratios for the estimation of gender of the writer from a database of handwriting features. <i>Australian Journal of Forensic Sciences</i> , 2023, 55, 89-106.	0.7	4
30	Correspondence. <i>Applied Spectroscopy</i> , 2016, 70, 1598-1601.	1.2	2
31	Proof of concept study for paper discrimination and age estimation through its degradation process by ATR-FTIR spectroscopy and chemometric models. <i>Australian Journal of Forensic Sciences</i> , 2021, 53, 703-726.	0.7	2
32	FTIR and NIRS in Forensic Chemical Sensing. <i>RSC Detection Science</i> , 2019, , 164-197.	0.0	2
33	On the examination of raw, pasteurized, powdered, and adulterated milk samples and their multivariate classification: applications in food and forensic science. <i>Spectroscopy Letters</i> , 2019, 52, 583-598.	0.5	1
34	Correspondence regarding the article "A novel metastable state nanoparticle-enhanced Raman spectroscopy coupled with thin layer chromatography for determination of multiple pesticides" <i>Food Chemistry</i> 270 (2019) 494-501. <i>Food Chemistry</i> , 2019, 277, 31.	4.2	0
35	Smartphones as Chemometric applications. , 2021, , 129-158.		0