VISHAL SHARMA

List of Publications by Year in descending order

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102 papers

2,517 citations

172457 29 h-index 254184 43 g-index

102 all docs

102 docs citations

102 times ranked

2288 citing authors

#	Article	IF	CITATIONS
1	Novel use of logistic regression and likelihood ratios for the estimation of gender of the writer from a database of handwriting features. Australian Journal of Forensic Sciences, 2023, 55, 89-106.	1.2	4
2	A luminescent Zn-MOF for the detection of explosives and development of fingerprints. Analytical Methods, 2022, 14, 700-707.	2.7	18
3	Proof of concept study for paper discrimination and age estimation through its degradation process by ATR-FTIR spectroscopy and chemometric models. Australian Journal of Forensic Sciences, 2021, 53, 703-726.	1.2	2
4	Chemometrics based ATR-FTIR spectroscopy method for rapid and non-destructive discrimination between eyeliner and mascara traces. Microchemical Journal, 2021, 164, 106080.	4. 5	16
5	Methylene Blue Dye Adsorption from Wastewater Using Hydroxyapatite/Gold Nanocomposite: Kinetic and Thermodynamics Studies. Nanomaterials, 2021, 11, 1403.	4.1	33
6	PLS-DA and infrared spectroscopy based rapid and non-destructive discrimination of black ball and gel pen inks for forensic application. Forensic Science International: Reports, 2021, 3, 100162.	0.8	8
7	A Review of Adsorbents for Heavy Metal Decontamination: Growing Approach to Wastewater Treatment. Materials, 2021, 14, 4702.	2.9	95
8	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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 258, 119803.	3.9	13
9	Nanoparticles as fingermark sensors. TrAC - Trends in Analytical Chemistry, 2021, 143, 116378.	11.4	28
10	Spectral characteristics of organic soil matter: A comprehensive review. Microchemical Journal, 2021, 171, 106836.	4. 5	22
11	Microwave-assisted synthesis of gum gellan-cl-poly(acrylic-co- methacrylic acid) hydrogel for cationic dyes removal. Polymer Bulletin, 2020, 77, 4917-4935.	3.3	18
12	Thermogravimetric analysis and chemometric based methods for soil examination: Application to soil forensics. Forensic Chemistry, 2020, 17, 100191.	2.8	28
13	A novel near white light emitting phosphor KSrYSi2O7:Dy3+: Synthesis, characterization and luminescence properties. Vacuum, 2020, 174, 109179.	3.5	26
14	Neem gum based pH responsive hydrogel matrix: A new pharmaceutical excipient for the sustained release of anticancer drug. International Journal of Biological Macromolecules, 2020, 142, 742-755.	7.5	13
15	On the IR spectroscopy and chemometric based rapid and non-destructive method for the investigation of sunscreen stains: Application in forensic science. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118708.	3.9	13
16	Bloodstain age estimation through infrared spectroscopy and Chemometric models. Science and Justice - Journal of the Forensic Science Society, 2020, 60, 538-546.	2.1	32
17	Chemometric analysis of ATR-FTIR spectra of fingernail clippings for classification and prediction of sex in forensic context. Microchemical Journal, 2020, 159, 105504.	4.5	27
18	Ultrasonic Velocities of Binary Mixtures of Homologous Series of Ethylene Glycol and Glycerol at Different Temperatures: A Comparative Study. Materials Today: Proceedings, 2020, 21, 1875-1881.	1.8	3

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19	Formulation and Characterization of Corn Grits- Propylene Glycol Extrudates. Materials Today: Proceedings, 2020, 21, 1772-1780.	1.8	3
20	On the rapid and non-destructive approach for wood identification using ATR-FTIR spectroscopy and chemometric methods. Vibrational Spectroscopy, 2020, 110, 103097.	2.2	43
21	Characterization and application of biosynthesized iron oxide nanoparticles using Citrus paradisi peel: A sustainable approach. Inorganic Chemistry Communication, 2020, 119, 108116.	3.9	48
22	Estimation of sex in forensic examinations using logistic regression and likelihood ratios. Forensic Science International: Reports, 2020, 2, 100118.	0.8	5
23	Effect of UV-irradiation on the optical properties of transparent PET polymeric foils. Materials Today: Proceedings, 2020, 21, 2105-2111.	1.8	3
24	A Short Review on Rare Earth Doped NaYF4 Upconverted Nanomaterials for Solar Cell Applications. Materials Today: Proceedings, 2020, 21, 1868-1874.	1.8	18
25	On the spectroscopic cum chemometric approach for differentiation and classification of inkjet, laser and photocopier printed documents. Science and Justice - Journal of the Forensic Science Society, 2020, 60, 347-357.	2.1	17
26	Stature estimation in forensic examinations using regression analysis: A likelihood ratio perspective. Forensic Science International: Reports, 2020, 2, 100069.	0.8	6
27	Preparation of gum acacia-poly(acrylamide-IPN-acrylic acid) based nanocomposite hydrogels via polymerization methods for antimicrobial applications. Journal of Molecular Structure, 2020, 1215, 128298.	3.6	27
28	Preparation and Characterizations Graft Copolymer of Poly(acrylamide-aniline)-Grafted Gum Ghatti. Materials Today: Proceedings, 2020, 21, 1856-1861.	1.8	3
29	Rapid and non-destructive identification of claws using ATR-FTIR spectroscopy–A novel approach in wildlife forensics. Science and Justice - Journal of the Forensic Science Society, 2019, 59, 622-629.	2.1	18
30	Differentiation of locally manufactured Kajal by Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy supported by chemometric analysis. Forensic Science International, 2019, 303, 109930.	2.2	21
31	Development of an off-on selective fluorescent sensor for the detection of Fe3+ ions based on Schiff base and its Hirshfeld surface and DFT studies. Journal of Molecular Liquids, 2019, 296, 111814.	4.9	27
32	On the examination of raw, pasteurized, powdered, and adulterated milk samples and their multivariate classification: applications in food and forensic science. Spectroscopy Letters, 2019, 52, 583-598.	1.0	1
33	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. Analytical and Bioanalytical Chemistry, 2019, 411, 3477-3495.	3.7	14
34	Forensic Examination of Textile Fibers Using UV-Vis Spectroscopy Combined with Multivariate Analysis. Journal of Applied Spectroscopy, 2019, 86, 96-100.	0.7	9
35	On the spectroscopic investigation of lipstick stains: Forensic trace evidence. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 215, 48-57.	3.9	38
36	On the spectroscopic investigation of Kohl stains via ATR-FTIR and multivariate analysis: Application in forensic trace evidence. Vibrational Spectroscopy, 2019, 101, 81-91.	2.2	32

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37	Spectroscopic and chemometric evaluation of cling films used for wrapping of foodstuff and illicit drugs. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 558-568.	3.9	29
38	Ecofriendly synthesis of monodispersed silver nanoparticles using Andean Morti $\tilde{A}\pm 0$ berry as reductant and its photocatalytic activity. Vacuum, 2019, 160, 272-278.	3.5	46
39	Correspondence regarding the article "A novel metastable state nanoparticle-enhanced Raman spectroscopy coupled with thin layer chromatography for determination of multiple pesticides―Food Chemistry 270 (2019) 494–501. Food Chemistry, 2019, 277, 31.	8.2	0
40	Analysis of writing/printing paper via Thermogravimetric Analysis: application in forensic science. Australian Journal of Forensic Sciences, 2019, 51, 22-39.	1.2	13
41	FTIR and NIRS in Forensic Chemical Sensing. RSC Detection Science, 2019, , 164-197.	0.0	2
42	Soil forensics: A spectroscopic examination of trace evidence. Microchemical Journal, 2018, 139, 74-84.	4.5	49
43	Analysis of laserÂprinter and photocopier toners by spectral properties and chemometrics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 196, 40-48.	3.9	43
44	Combustion synthesis and characterization of blue long lasting phosphor CaAl 2 O 4: Eu 2+, Dy 3+ and its novel application in latent fingerprint and lip mark detection. Physica B: Condensed Matter, 2018, 535, 149-156.	2.7	40
45	Recent advances in rare earth doped alkali-alkaline earth borates for solid state lighting applications. Physica B: Condensed Matter, 2018, 535, 106-113.	2.7	36
46	Potential of Sm 3+ doped LiSrVO 4 nanophosphor to fill amber gap in LEDs. Physica B: Condensed Matter, 2018, 535, 221-226.	2.7	57
47	Recent advances in enhanced luminescence upconversion of lanthanide-doped NaYF 4 phosphors. Physica B: Condensed Matter, 2018, 535, 278-286.	2.7	20
48	Energy loss straggling of α-particles in Tb, Ta and Au metallic foils. Vacuum, 2018, 158, 42-47.	3.5	4
49	Synthesis, characterization and upconversion luminescence of core-shell nanocomposites NaYF4: Er/Yb@SiO2@Ag/Au. Vacuum, 2018, 157, 492-496.	3.5	14
50	Green synthesis of agar/Gum Arabic based superabsorbent as an alternative for irrigation in agriculture. Vacuum, 2018, 157, 458-464.	3.5	48
51	Trends of chemometrics in bloodstain investigations. TrAC - Trends in Analytical Chemistry, 2018, 107, 181-195.	11.4	51
52	Chemometrics in forensic science. TrAC - Trends in Analytical Chemistry, 2018, 105, 191-201.	11.4	140
53	Synthesis and thermoluminescence studies of UV-C exposed Li4Ca(BO3)2: Dy3+ phosphors. Vacuum, 2018, 156, 370-374.	3.5	9
54	Application of ionic liquid and alkali pretreatment for enhancing saccharification of sunflower stalk biomass for potential biofuel-ethanol production. Bioresource Technology, 2018, 267, 560-568.	9.6	114

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55	Voice stress analysis for Punjabi and Hindi database: Detection of deception. AIP Conference Proceedings, 2018, , .	0.4	O
56	Multivariate analysis for forensic characterization, discrimination, and classification of marker pen inks. Spectroscopy Letters, 2018, 51, 205-215.	1.0	9
57	Fourier transform infrared spectroscopy and chemometrics for the characterization and discrimination of writing/photocopier paper types: Application in forensic document examinations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 170, 19-28.	3.9	44
58	Investigation of structural, morphological and optical properties of Mg: ZnO thin films prepared by sol-gel spin coating method. Vacuum, 2017, 146, 524-529.	3.5	25
59	Dating of ballpoint pen writing inks via spectroscopic and multiple linear regression analysis: A novel approach. Microchemical Journal, 2017, 134, 104-113.	4.5	36
60	Fourier transform infrared spectroscopy and high performance thin layer chromatography for characterization and multivariate discrimination of blue ballpoint pen ink for forensic applications. Vibrational Spectroscopy, 2017, 92, 96-104.	2,2	36
61	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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 175, 67-75.	3.9	37
62	A novel orange-red emitting Ba 2 Ca(BO 3) 2 :Sm 3+ phosphor to fill the amber gap in LEDs: Synthesis, structural and luminescence characterizations. Current Applied Physics, 2017, 17, 1369-1375.	2.4	32
63	Influence of Fe-doping on the structural, optical and luminescent behavior of ZnO thin films deposited by spin coating technique. Vacuum, 2017, 146, 478-482.	3.5	12
64	Voice recognition through phonetic features with Punjabi utterances. AIP Conference Proceedings, 2017, , .	0.4	0
65	Correspondence. Applied Spectroscopy, 2016, 70, 1598-1601.	2.2	2
66	Eu ²⁺ ,Dy ³⁺ codoped SrAl ₂ O ₄ nanocrystalline phosphor for latent fingerprint detection in forensic applications. Materials Research Express, 2016, 3, 015004.	1.6	43
67	Energy loss straggling in Aluminium foils for Li and C ions in fractional energy loss limits (ΔE/E) ⰼ10–60%. Radiation Physics and Chemistry, 2016, 119, 180-185.	2.8	4
68	Synthesis And Characterization Of Eu3+ Doped α-Al2O3 Nanocrystalline Powder For Novel ApplicationÂin Latent Fingerprint Development. Advanced Materials Letters, 2016, 7, 302-306.	0.6	12
69	Discrimination of Various Paper Types Using Diffuse Reflectance Ultraviolet–Visible Near-Infrared (UV-Vis-NIR) Spectroscopy: Forensic Application to Questioned Documents. Applied Spectroscopy, 2015, 69, 714-720.	2.2	29
70	Thermal reactions involving 1-azadienes and allenic esters-(II):1a reactions of 3-(N-aryliminomethyl)chromones with allenic esters-tandem reorganization of [2+2] cycloadducts to novel compounds. Tetrahedron Letters, 2015, 56, 4784-4787.	1.4	4
71	Energy transfer mechanism from Gd ³⁺ to Sm ³⁺ in K ₃ Gd(PO ₄) ₂ :Sm ³⁺ phosphor. Materials Research Express, 2015, 2, 076202.	1.6	38
72	Effect of alkali metal ions (Li+, Na+ and K+) on the luminescence properties of CaMgB2O5: Sm3+ nanophosphor. Nano Structures Nano Objects, 2015, 3, 9-16.	3.5	40

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73	Solvent-free synthesis of novel (E)-2-(3,5-dimethyl-4-(aryldiazenyl)-1H-pyrazol-1-yl)-4-arylthiazoles: determination of their biological activity. Medicinal Chemistry Research, 2015, 24, 3863-3875.	2.4	13
74	A mechanistic study of the synthesis, single crystal X-ray data and anticarcinogenic potential of bis(2-pyridyl)selenides and -diselenides. RSC Advances, 2015, 5, 78669-78676.	3.6	17
75	Multifarious potential applications of keratinase of <i>Bacillus subtilis </i> K-5. Biocatalysis and Biotransformation, 2014, 32, 333-342.	2.0	22
76	Potential of Sr4Al14O25: Eu2+,Dy3+ inorganic oxide-based nanophosphor in Latent fingermark detection. Journal of Materials Science, 2014, 49, 2225-2234.	3.7	52
77	Synthesis and evaluation of 3-salicyloylpyridine derivatives as cytotoxic mitochondrial apoptosis inducers. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4724-4728.	2.2	6
78	\hat{l}^2 -lonone derived apoptosis inducing endoperoxides; Discovery of potent leads for anticancer agents. European Journal of Medicinal Chemistry, 2014, 87, 228-236.	5 . 5	12
79	Swift heavy ion induced structural, optical and luminescence modification in NaSrBO3:Dy3+ phosphor. Journal of Materials Science, 2014, 49, 6404-6412.	3.7	22
80	Isolation, Purification, and Characterization of Antimicrobial Compound 6-[1,2-dimethyl-6-(2-methyl-allyloxy)-hexyl]-3-(2-methoxy-phenyl)-chromen-4-one from Penicillium sp. HT-28. Applied Biochemistry and Biotechnology, 2014, 173, 1963-1976.	2.9	13
81	\hat{l}^2 -lonone derived chalcones as potent antiproliferative agents. European Journal of Medicinal Chemistry, 2013, 69, 310-315.	5 . 5	21
82	Spectral and surface investigations of Mn2+ doped SrZnO2 nanocrystalline phosphors. Journal of Materials Science, 2013, 48, 3327-3333.	3.7	23
83	Synthesis and cytotoxicity evaluation of regioisomeric substituted N-phenyl-3′-(chrom-4-one-3-yl)-isoxazolidines: induction of apoptosis through a mitochondrial-dependent pathway. MedChemComm, 2013, 4, 972.	3.4	14
84	Genome-Wide Organization and Expression Profiling of the NAC Transcription Factor Family in Potato (Solanum tuberosum L.). DNA Research, 2013, 20, 403-423.	3.4	174
85	Bioactivity Guided Isolation of Quercetin as Anxiolytic Compound from Elaeocarpus ganitrus Beads. Natural Products Journal, 2013, 3, 224-229.	0.3	6
86	Synthesis and evaluation of novel 3a,9a-dihydro-1-ethoxycarbonyl-1-cyclopenteno[5,4-b]benzopyran-4-ones as antifungal agents. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4665-4667.	2.2	19
87	Photochemical formation and decomposition of 8-[β-arylethenyl]-2,2,6-trimethyl-7,9,10-trioxa-tricyclo[6.2.2.01,6]dodec-11-ene to novel 6-hydroxy-1,7,7-trimethyl-2-oxa-bicyclo[4.4.0]dec-4-en-3-one in the presence of oxygen. Tetrahedron Letters. 2012, 53, 5649-5651.	1.4	6
88	Synthesis of \hat{l}^2 -ionone derived chalcones as potent antimicrobial agents. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6343-6346.	2.2	38
89	In Vitro Activity of Vancomycin and Teicoplanin Against Coagulase Negative Staphylococci. Oman Medical Journal, 2011, 26, 186-188.	1.0	4
90	Anticonvulsant activity of schiff bases of 3-amino-6,8-dibromo-2-phenyl-quinazolin-4(3H)-ones. Indian Journal of Pharmaceutical Sciences, 2010, 72, 375.	1.0	36

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91	Statistical fluctuations in energy loss for swift heavy ions in thick polymeric foils. Physical Review A, 2009, 80, .	2.5	7
92	Electronic stopping power of polymers for heavy ions in the ion energy domain of LSS theory. Radiation Measurements, 2009, 44, 363-368.	1.4	12
93	Energy loss of light ions in polypropylene absorber foils. Indian Journal of Physics, 2009, 83, 937-941.	1.8	5
94	Energy loss straggling of Si and Cl ions in polymeric foils. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1933-1937.	1.4	6
95	Energy loss and straggling in LR-115 and Kapton polymeric foils for energetic ions. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2556-2563.	1.4	16
96	Stopping power of polymeric foils for swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3988-3992.	1.4	8
97	Stopping force of 0.5–3.5MeV/u Cl ions in polymers. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4738-4741.	1.4	12
98	In vitro cytotoxic potential of Polyalthia longifolia on human cancer cell lines and induction of apoptosis through mitochondrial-dependent pathway in HL-60 cells. Chemico-Biological Interactions, 2008, 171, 45-56.	4.0	47
99	Energy loss and straggling of MeV heavy ions in polypropylene absorber foils. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 293-298.	1.4	21
100	Energy loss straggling of Li, C and O ions in mylar and polycarbonate absorber foils. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 289-293.	1.4	9
101	Slowing down of MeV heavy ions with Z=6–29 in PEN (C7H5O2). Nuclear Instruments & Methods in Physics Research B, 2003, 201, 389-395.	1.4	20
102	Registration temperature effect on sensitivity of CR-39(DOP) and SR-90 polymer track detectors. Radiation Measurements, 2003, 36, 89-92.	1.4	6