VISHAL SHARMA

List of Publications by Year
in descending order

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102	2,517	172457	254184
papers	citations	29 h-index	43 g-index

102	102	102	2288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Chemometrics in forensic science. TrAC - Trends in Analytical Chemistry, 2018, 105, 191-201.	11.4	140
3	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
4	A Review of Adsorbents for Heavy Metal Decontamination: Growing Approach to Wastewater Treatment. Materials, 2021, 14, 4702.	2.9	95
5	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
6	Potential of Sr4Al14O25: Eu2+,Dy3+ inorganic oxide-based nanophosphor in Latent fingermark detection. Journal of Materials Science, 2014, 49, 2225-2234.	3.7	52
7	Trends of chemometrics in bloodstain investigations. TrAC - Trends in Analytical Chemistry, 2018, 107, 181-195.	11.4	51
8	Soil forensics: A spectroscopic examination of trace evidence. Microchemical Journal, 2018, 139, 74-84.	4.5	49
9	Green synthesis of agar/Gum Arabic based superabsorbent as an alternative for irrigation in agriculture. Vacuum, 2018, 157, 458-464.	3.5	48
10	Characterization and application of biosynthesized iron oxide nanoparticles using Citrus paradisi peel: A sustainable approach. Inorganic Chemistry Communication, 2020, 119, 108116.	3.9	48
11	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
12	Ecofriendly synthesis of monodispersed silver nanoparticles using Andean MortiÃ±o berry as reductant and its photocatalytic activity. Vacuum, 2019, 160, 272-278.	3.5	46
13	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
14	Eu²⁺,Dy³⁺codoped SrAl₂O₄nanocrystalline phosphor for latent fingerprint detection in forensic applications. Materials Research Express, 2016, 3, 015004.	1.6	43
15	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
16	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
17	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
18	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

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19	Synthesis of Î²-ionone derived chalcones as potent antimicrobial agents. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6343-6346.	2.2	38
20	Energy transfer mechanism from Gd³⁺ to Sm³⁺ in K₃Gd(PO₄)₂:Sm³⁺ phosphor. Materials Research Express, 2015, 2, 076202.	1.6	38
21	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
22	A novel combined approach of diffuse reflectance UVâ€“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
23	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
24	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
25	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
26	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
27	Methylene Blue Dye Adsorption from Wastewater Using Hydroxyapatite/Gold Nanocomposite: Kinetic and Thermodynamics Studies. Nanomaterials, 2021, 11, 1403.	4.1	33
28	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
29	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
30	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
31	Discrimination of Various Paper Types Using Diffuse Reflectance Ultravioletâ€“Visible Near-Infrared (UV-Vis-NIR) Spectroscopy: Forensic Application to Questioned Documents. Applied Spectroscopy, 2015, 69, 714-720.	2.2	29
32	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
33	Thermogravimetric analysis and chemometric based methods for soil examination: Application to soil forensics. Forensic Chemistry, 2020, 17, 100191.	2.8	28
34	Nanoparticles as fingermark sensors. TrAC - Trends in Analytical Chemistry, 2021, 143, 116378.	11.4	28
35	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
36	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

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37	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
38	A novel near white light emitting phosphor KSrYSi2O7:Dy3+: Synthesis, characterization and luminescence properties. Vacuum, 2020, 174, 109179.	3.5	26
39	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
40	Spectral and surface investigations of Mn2+ doped SrZnO2 nanocrystalline phosphors. Journal of Materials Science, 2013, 48, 3327-3333.	3.7	23
41	Multifarious potential applications of keratinase ofBacillus subtilisK-5. Biocatalysis and Biotransformation, 2014, 32, 333-342.	2.0	22
42	Swift heavy ion induced structural, optical and luminescence modification in NaSrBO3:Dy3+ phosphor. Journal of Materials Science, 2014, 49, 6404-6412.	3.7	22
43	Spectral characteristics of organic soil matter: A comprehensive review. Microchemical Journal, 2021, 171, 106836.	4.5	22
44	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
45	Î²-Ionone derived chalcones as potent antiproliferative agents. European Journal of Medicinal Chemistry, 2013, 69, 310-315.	5.5	21
46	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
47	Slowing down of MeV heavy ions with Z=6â€“29 in PEN (C7H5O2). Nuclear Instruments & Methods in Physics Research B, 2003, 201, 389-395.	1.4	20
48	Recent advances in enhanced luminescence upconversion of lanthanide-doped NaYF 4 phosphors. Physica B: Condensed Matter, 2018, 535, 278-286.	2.7	20
49	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
50	Rapid and non-destructive identification of claws using ATR-FTIR spectroscopyâ€“A novel approach in wildlife forensics. Science and Justice - Journal of the Forensic Science Society, 2019, 59, 622-629.	2.1	18
51	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
52	A Short Review on Rare Earth Doped NaYF4 Upconverted Nanomaterials for Solar Cell Applications. Materials Today: Proceedings, 2020, 21, 1868-1874.	1.8	18
53	A luminescent Zn-MOF for the detection of explosives and development of fingerprints. Analytical Methods, 2022, 14, 700-707.	2.7	18
54	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

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55	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
56	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
57	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
58	Synthesis and cytotoxicity evaluation of regioisomeric substituted N-phenyl-3â€²-(chrom-4-one-3-yl)-isoxazolidines: induction of apoptosis through a mitochondrial-dependent pathway. MedChemComm, 2013, 4, 972.	3.4	14
59	Synthesis, characterization and upconversion luminescence of core-shell nanocomposites NaYF4: Er/Yb@SiO2@Ag/Au. Vacuum, 2018, 157, 492-496.	3.5	14
60	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
61	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
62	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
63	Analysis of writing/printing paper via Thermogravimetric Analysis: application in forensic science. Australian Journal of Forensic Sciences, 2019, 51, 22-39.	1.2	13
64	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
65	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
66	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
67	Stopping force of 0.5â€“3.5MeV/u Cl ions in polymers. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4738-4741.	1.4	12
68	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
69	Î²-Ionone derived apoptosis inducing endoperoxides; Discovery of potent leads for anticancer agents. European Journal of Medicinal Chemistry, 2014, 87, 228-236.	5.5	12
70	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
71	Synthesis And Characterization Of Eu3+ Doped Î±-Al2O3 Nanocrystalline Powder For Novel ApplicationÂin Latent Fingerprint Development. Advanced Materials Letters, 2016, 7, 302-306.	0.6	12
72	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

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73	Synthesis and thermoluminescence studies of UV-C exposed Li4Ca(BO3)2: Dy3+ phosphors. Vacuum, 2018, 156, 370-374.	3.5	9
74	Multivariate analysis for forensic characterization, discrimination, and classification of marker pen inks. Spectroscopy Letters, 2018, 51, 205-215.	1.0	9
75	Forensic Examination of Textile Fibers Using UV-Vis Spectroscopy Combined with Multivariate Analysis. Journal of Applied Spectroscopy, 2019, 86, 96-100.	0.7	9
76	Stopping power of polymeric foils for swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3988-3992.	1.4	8
77	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
78	Statistical fluctuations in energy loss for swift heavy ions in thick polymeric foils. Physical Review A, 2009, 80, .	2.5	7
79	Registration temperature effect on sensitivity of CR-39(DOP) and SR-90 polymer track detectors. Radiation Measurements, 2003, 36, 89-92.	1.4	6
80	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
81	Photochemical formation and decomposition of 8-[Î²-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
82	Synthesis and evaluation of 3-salicyloylpyridine derivatives as cytotoxic mitochondrial apoptosis inducers. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4724-4728.	2.2	6
83	Stature estimation in forensic examinations using regression analysis: A likelihood ratio perspective. Forensic Science International: Reports, 2020, 2, 100069.	0.8	6
84	Bioactivity Guided Isolation of Quercetin as Anxiolytic Compound from Elaeocarpus ganitrus Beads. Natural Products Journal, 2013, 3, 224-229.	0.3	6
85	Energy loss of light ions in polypropylene absorber foils. Indian Journal of Physics, 2009, 83, 937-941.	1.8	5
86	Estimation of sex in forensic examinations using logistic regression and likelihood ratios. Forensic Science International: Reports, 2020, 2, 100118.	0.8	5
87	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
88	Energy loss straggling in Aluminium foils for Li and C ions in fractional energy loss limits (Î”E/E) â‰¼10â€“60%. Radiation Physics and Chemistry, 2016, 119, 180-185.	2.8	4
89	Energy loss straggling of Î±-particles in Tb, Ta and Au metallic foils. Vacuum, 2018, 158, 42-47.	3.5	4
90	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

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91	In Vitro Activity of Vancomycin and Teicoplanin Against Coagulase Negative Staphylococci. Oman Medical Journal, 2011, 26, 186-188.	1.0	4
92	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
93	Formulation and Characterization of Corn Grits- Propylene Glycol Extrudates. Materials Today: Proceedings, 2020, 21, 1772-1780.	1.8	3
94	Effect of UV-irradiation on the optical properties of transparent PET polymeric foils. Materials Today: Proceedings, 2020, 21, 2105-2111.	1.8	3
95	Preparation and Characterizations Graft Copolymer of Poly(acrylamide-aniline)-Grafted Gum Ghatti. Materials Today: Proceedings, 2020, 21, 1856-1861.	1.8	3
96	Correspondence. Applied Spectroscopy, 2016, 70, 1598-1601.	2.2	2
97	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
98	FTIR and NIRS in Forensic Chemical Sensing. RSC Detection Science, 2019, , 164-197.	0.0	2
99	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
100	Voice recognition through phonetic features with Punjabi utterances. AIP Conference Proceedings, 2017, , .	0.4	0
101	Voice stress analysis for Punjabi and Hindi database: Detection of deception. AIP Conference Proceedings, 2018, , .	0.4	0
102	Correspondence regarding the article â€œA novel metastable state nanoparticle-enhanced Raman spectroscopy coupled with thin layer chromatography for determination of multiple pesticidesâ€•Food Chemistry 270 (2019) 494â€“501. Food Chemistry, 2019, 277, 31.	8.2	0