

# Rohit Kumar

## List of Publications by Year in descending order

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85  
papers

1,428  
citations

331670

21  
h-index

414414

32  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1531  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of LIBS for Spectrochemical Analysis: A Review. Applied Spectroscopy Reviews, 2012, 47, 14-40.	6.7	103
2	Physico-functional, thermo-pasting and antioxidant properties of microwave roasted sorghum [Sorghum bicolor (L.) Moench]. Journal of Cereal Science, 2019, 85, 111-119.	3.7	84
3	Systematic Tuning of Fluoro-galectin-3 Interactions Provides Thiodigalactoside Derivatives with Single-Digit nM Affinity and High Selectivity. Journal of Medicinal Chemistry, 2018, 61, 1164-1175.	6.4	76
4	Monitoring of toxic elements present in sludge of industrial waste using CF-LIBS. Environmental Monitoring and Assessment, 2013, 185, 171-180.	2.7	55
5	Study of archaeological coins of different dynasties using libs coupled with multivariate analysis. Optics and Lasers in Engineering, 2016, 79, 29-38.	3.8	48
6	Evaluation of Risk Factors for Rectus Sheath Hematoma. Clinical and Applied Thrombosis/Hemostasis, 2016, 22, 292-296.	1.7	48
7	Evaluation of the prediction precision capability of partial least squares regression approach for analysis of high alloy steel by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 108, 8-14.	2.9	46
8	LIBS: A Quality Control Tool for Food Supplements. Food Biophysics, 2011, 6, 527-533.	3.0	42
9	Laser Induced breakdown spectroscopy: A rapid tool for the identification and quantification of minerals in cucurbit seeds. Food Chemistry, 2017, 221, 1778-1783.	8.2	41
10	Transcriptome profiling and expression analysis of immune responsive genes in the liver of Golden mahseer ( Tor putitora ) challenged with Aeromonas hydrophila. Fish and Shellfish Immunology, 2017, 67, 655-666.	3.6	36
11	Transcriptional response to heat shock in liver of snow trout (Schizothorax richardsonii)â€”a vulnerable Himalayan Cyprinid fish. Functional and Integrative Genomics, 2016, 16, 203-213.	3.5	34
12	Extending the Theory of Planned Behaviour: Impact of Past Behavioural Biases on the Investment Decision of Indian Investors. Asian Journal of Business and Accounting, 2018, 11, 265-291.	0.8	31
13	<i>In-Situ</i> Monitoring of Chromium Uptake in Different Parts of the Wheat Seedling ( <i>Triticum</i> ) Tj ETQq1 1 0.784314 rgBT /Over 1.0 28		
14	Structural Mechanism of Allosteric Activity Regulation in a Ribonucleotide Reductase with Double ATP Cones. Structure, 2016, 24, 906-917.	3.3	28
15	On the effect of spray parameters on CO and NO x emissions in a liquid fuel fired flameless combustor. Fuel, 2017, 199, 229-238.	6.4	28
16	Laser-Induced Breakdown Spectroscopy and Phytolith Analysis: An Approach to Study the Deposition and Distribution Pattern of Silicon in Different Parts of Wheat (Triticum aestivum L.) Plant. Agricultural Research, 2012, 1, 352-361.	1.7	27
17	Location Influence in Location-based Social Networks. , 2017, , .		27
18	In situ analysis of impurities deposited on the tokamak flange using laser induced breakdown spectroscopy. Journal of Nuclear Materials, 2014, 444, 23-29.	2.7	26

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19	Analysis of impurities on contaminated surface of the tokamak limiter using laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 126, 17-22.	2.9	25
20	Determination of concentrations of chromium and other elements in soil and plant samples from leather tanning area by Instrumental Neutron Activation Analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 300, 213-218.	1.5	24
21	Structure and Energetics of Ligand-Fluorine Interactions with Galectin-3 Backbone and Side-Chain Amides: Insight into Solvation Effects and Multipolar Interactions. <i>ChemMedChem</i> , 2019, 14, 1528-1536.	3.2	24
22	LASER-INDUCED BREAKDOWN SPECTROSCOPY FOR THE STUDY OF THE PATTERN OF SILICON DEPOSITION IN LEAVES OF SACCHARUM SPECIES. <i>Instrumentation Science and Technology</i> , 2011, 39, 510-521.	1.8	23
23	Analysis of deposited impurity material on the surface of the optical window of the Tokamak using LIBS. <i>Physica Scripta</i> , 2014, 89, 075601.	2.5	22
24	Experimental Investigations on Laminar Burning Velocity Variation of Methyl Formate-Air Mixtures at Elevated Temperatures. <i>Energy &amp; Fuels</i> , 2018, 32, 12936-12948.	5.1	22
25	Experimental Investigations on Laminar Burning Velocities of n-Heptane + Air Mixtures at Higher Mixture Temperatures Using Externally Heated Diverging Channel Method. <i>Energy &amp; Fuels</i> , 2020, 34, 2405-2416.	5.1	21
26	Discrimination of gallbladder stone employing Laser-Induced Breakdown Spectroscopy (LIBS) and Photoacoustic Spectroscopy (PAS). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119948.	3.9	21
27	A Review of and Recommendations for the Management of Patients With Life-Threatening Dabigatran-Associated Hemorrhage. <i>Journal of Intensive Care Medicine</i> , 2015, 30, 462-472.	2.8	20
28	Fruit peel bioactives, valorisation into nanoparticles and potential applications: A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 6757-6776.	10.3	20
29	Measurement of laminar burning velocity of n-pentanol-air mixtures at elevated temperatures and a skeletal kinetic model. <i>Fuel</i> , 2019, 237, 10-17.	6.4	18
30	Entropy Entropy Compensation between the Protein, Ligand, and Solvent Degrees of Freedom Fine-Tunes Affinity in Ligand Binding to Galectin-3C. <i>Jacs Au</i> , 2021, 1, 484-500.	7.9	17
31	Comparison of spectrum normalization techniques for univariate analysis of stainless steel by laser-induced breakdown spectroscopy. <i>Pramana - Journal of Physics</i> , 2016, 86, 1313-1327.	1.8	16
32	Perdeuteration, crystallization, data collection and comparison of five neutron diffraction data sets of complexes of human galectin-3C. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 1194-1202.	2.3	15
33	Study of TAFE and vortex phase of Fe <sub>x</sub> Te <sub>0.60</sub> Se <sub>0.40</sub> (0.970 x x) Tj ETQq1 1 0.784314 rjB	2.51	15
34	Substituted polyfluoroaryl interactions with an arginine side chain in galectin-3 are governed by steric-, desolvation and electronic conjugation effects. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1081-1089.	2.8	14
35	Laminar burning velocity measurements of iso-octane-air mixtures at higher unburnt mixture temperatures. <i>Fuel</i> , 2021, 288, 119652.	6.4	14
36	Laser-Induced Breakdown Spectroscopy Coupled with PCA Study of Human Tooth. <i>The National Academy of Sciences, India</i> , 2019, 42, 87-90.	1.3	13

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37	Effect of Engine Parameters on the Performance of Dual-Fuel CI Engines with Producer Gas – A Review. Energy & Fuels, 2021, 35, 16377-16402.	5.1	12
38	The complete mitogenome of brown trout ( <i>Salmo trutta fario</i> ) and its phylogeny. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 4563-4565.	0.7	11
39	Spectro-chemical study of moldavites from Ries impact structure (Germany) using LIBS. Optics and Laser Technology, 2019, 114, 146-157.	4.6	11
40	Roasting of black rice ( <i>Oryza Sativa</i> L.): change in physico-functional, thermo-pasting, antioxidant and anthocyanin content. Journal of Food Measurement and Characterization, 2021, 15, 2240-2250.	3.2	11
41	NCDB Analysis of Melanoma 2004–2015: Epidemiology and Outcomes by Subtype, Sociodemographic Factors Impacting Clinical Presentation, and Real-World Survival Benefit of Immunotherapy Approval. Cancers, 2021, 13, 1455.	3.7	11
42	Rapid Analysis of Chemical Composition and Physical Properties of Gemstones Using LIBS and Chemometric Technique. Applied Sciences (Switzerland), 2021, 11, 6156.	2.5	11
43	Complete mitochondrial genome organization of <i>Tor putitora</i> . Mitochondrial DNA, 2014, 25, 278-279.	0.6	10
44	The complete mitochondrial genome of threatened chocolate mahseer ( <i>Neolissochilus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (he	2.2	10
45	Solute carriers (SLCs) identified and characterized from kidney transcriptome of golden mahseer ( <i>Tor</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 462 Td (he Biology, 2016, 200, 54-61.	1.6	10
46	De novo assembly and characterization of tissue-specific transcriptome in the endangered golden mahseer, <i>Tor putitora</i> . Meta Gene, 2016, 7, 28-33.	0.6	10
47	Combustion of methylcyclohexane at elevated temperatures to investigate burning velocity for surrogate fuel development. Journal of Hazardous Materials, 2021, 406, 124627.	12.4	10
48	Formulation of a three-component gasoline surrogate model using laminar burning velocity data at elevated mixture temperatures. Fuel, 2021, 306, 121581.	6.4	10
49	Overview of recent experimental results from the ADITYA-U tokamak. Nuclear Fusion, 2022, 62, 042017.	3.5	10
50	Molecular characterization of rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum, 1792) stocks in India. Journal of Genetics, 2015, 94, 13-18.	0.7	9
51	Evaluation of Na and K in anti-diabetic ayurvedic medicine using LIBS. Lasers in Medical Science, 2022, 37, 513-522.	2.1	9
52	Maintaining Sliding-Window Neighborhood Profiles in Interaction Networks. Lecture Notes in Computer Science, 2015, , 719-735.	1.3	8
53	Complete mitochondrial genome organization of <i>Tor tor</i> (Hamilton, 1822). Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 2541-2542.	0.7	7
54	Investment Decision-Making Process between Different Groups of Investors: A Study of Indian Stock Market. Asia-Pacific Journal of Management Research and Innovation, 2018, 14, 39-49.	0.5	7

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55	Thrombotic Thrombocytopenic Purpura. <i>New England Journal of Medicine</i> , 2019, 380, e23.	27.0	7
56	Pathological findings of experimental <i>Aeromonas hydrophila</i> infection in Golden Mahseer ( <i>Tilapia nilotica</i> ). <i>Journal of Aquaculture and Fisheries</i> , 2020, 45, 102-107.	0.2	7
57	Proof-of-concept experiment for on-line laser induced breakdown spectroscopy analysis of impurity layer deposited on optical window and other plasma facing components of Aditya tokamak. <i>Review of Scientific Instruments</i> , 2015, 86, 123112.	1.3	6
58	The complete mitochondrial genome of a stream loach ( <i>Schistura reticulofasciata</i> ) and its phylogeny. <i>Conservation Genetics Resources</i> , 2018, 10, 829-832.	0.8	6
59	Study of anisotropy in the superconducting properties of $\text{FeTe}_{0.55}\text{Se}_{0.45}$ single crystal grown by the self-flux method. <i>Superconductor Science and Technology</i> , 2022, 35, 045003.	3.5	6
60	Morphometric variation and molecular characterization of snow trout species from Kashmir valley, India. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016, 27, 4492-4497.	0.7	5
61	IMaxer. , 2017, , .		5
62	Superconducting, magnetic and magnetotransport properties of $\text{FeTe}_{1-x}\text{Se}_x$ single crystals. <i>AIP Advances</i> , 2018, 8, .	1.3	5
63	The Hispanic paradox in non-small cell lung cancer. <i>Hematology/ Oncology and Stem Cell Therapy</i> , 2021, , .	0.9	5
64	Magnetic disorder and gap symmetry in the optimally electron-doped $\text{Sr}(\text{Fe},\text{Co})_2\text{As}_2$ superconductor. <i>Physical Review B</i> , 2018, 97, .	3.2	4
65	Gallstone Magnesium Distributions from Optical Emission Spectroscopy. <i>Atoms</i> , 2018, 6, 42.	1.6	4
66	Outcomes of in-hospital cardiopulmonary resuscitation for cardiac arrest in adult patients with metastatic solid cancers: A Nationwide Inpatient Sample database analysis from 2012 to 2014. <i>Cancer</i> , 2021, 127, 2148-2157.	4.1	4
67	Flux pinning characteristics of YBCO: $\text{NaNbO}_3$ by introducing artificial pinning centers with different morphology. <i>Ceramics International</i> , 2021, 47, 34189-34198.	4.8	4
68	Incidence and outcomes of heparin-induced thrombocytopenia in solid malignancy: an analysis of the National Inpatient Sample Database. <i>British Journal of Haematology</i> , 2020, 189, 543-550.	2.5	3
69	Numerical Study on the Effect of Plasma Density on Runaway Electron Suppression in the ADITYA-U Tokamak. <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 1445-1453.	1.3	3
70	Analysis of constituents present in smokeless tobacco ( <i>Nicotiana tabacum</i> ) using spectroscopic techniques. <i>Methods and Applications in Fluorescence</i> , 2022, 10, 034001.	2.3	3
71	Safety of immune checkpoint inhibitors in patients with preexisting autoimmune disorders. <i>Current Problems in Cancer</i> , 2022, 46, 100864.	2.0	3
72	Laminar Burning Velocity Measurements of Toluene + Air Mixtures and Ternary Surrogate Formulation at Elevated Temperatures. <i>Energy &amp; Fuels</i> , 2022, 36, 6420-6432.	5.1	3

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73	Cost Model for Pregel on GraphX. Lecture Notes in Computer Science, 2017, , 153-166.	1.3	2
74	2SCENT. Proceedings of the VLDB Endowment, 2018, 11, 1441-1453.	3.8	2
75	Effective and efficient location influence mining in location-based social networks. Knowledge and Information Systems, 2019, 61, 327-362.	3.2	2
76	Vortex state study of superconducting Fe(Te, Se) thin films deposited on SrTiO3 substrate by pulsed laser deposition technique. AIP Advances, 2019, 9, 125128.	1.3	2
77	Analysis of Tendu (Diospyros Melanoxylon) Leaf Using Spectroscopic Techniques. The National Academy of Sciences, India, 2022, 45, 91-94.	1.3	2
78	Development and characterization of microsatellite markers in Schizopyge niger (Family: Cyprinidae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	1
79	Activity-Driven Influence Maximization in Social Networks. Lecture Notes in Computer Science, 2017, , 345-348.	1.3	1
80	Harlequin sign in Pancoast tumor. Current Problems in Cancer, 2020, 44, 100506.	2.0	1
81	X <sup>2</sup> R <sup>2</sup> . Proceedings of the VLDB Endowment, 2020, 13, 2929-2932.	3.8	1
82	Controlling the rotation of drift tearing modes by biased electrode in ADITYA-U tokamak. Physics of Plasmas, 2021, 28, 112501.	1.9	1
83	Mineralogical application of LIBS: Elemental characterization of idiochromatic, allochromatic and pseudochromatic stones. Journal of Optics (India), 0, , 1.	1.7	1
84	Apple-core lesion. Current Problems in Cancer, 2019, 43, 100475.	2.0	0
85	Characterization of toxic substances present in smoking tobacco using different spectroscopic techniques. Journal of Laser Applications, 2022, 34, 022016.	1.7	0