

# M K Tiwari

## List of Publications by Year in descending order

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44  
papers

564  
citations

687363

13  
h-index

677142

22  
g-index

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docs citations

44  
times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of limit of detection sensitivities in the parts per billion range using conventional geometry synchrotron radiation excited EDXRF measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 575-583.	3.0	3
2	Measurement of L subshell fluorescence yield ratios of some high Z elements by selective excitation method. <i>X-Ray Spectrometry</i> , 2021, 50, 37-44.	1.4	1
3	Assessment of the Elemental Profile of Leafy Vegetables by Synchrotron-Radiation-Induced Energy Dispersive X-Ray Fluorescence Spectroscopy. <i>Journal of Applied Spectroscopy</i> , 2021, 88, 653-661.	0.7	6
4	Near edge absorption studies of pure and impure $\text{NbSe}_2$ ; theory and experiment. <i>Journal of Materials Science</i> , 2021, 56, 17062-17079.	3.7	2
5	Measurement of M subshell X-ray fluorescence parameters of gold, lead and bismuth using 7 keV synchrotron radiation. <i>Spectroscopy Letters</i> , 2021, 54, 715-722.	1.0	0
6	Prompt Screening of the Alterations in Biochemical and Mineral Profile of Wheat Plants Treated with Chromium Using Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy and X-ray Fluorescence Excited by Synchrotron Radiation. <i>Analytical Letters</i> , 2020, 53, 482-508.	1.8	9
7	Study of energy dependent behaviour of half-lens polycapillary optics using synchrotron x-rays. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
8	Effect of manganese stress on the mineral content of the leaves of wheat seedlings by use of X-ray fluorescence excited by synchrotron radiation. <i>Spectroscopy Letters</i> , 2018, 51, 302-310.	1.0	7
9	Determination of surface morphology of TiO <sub>2</sub> nanostructure using synchrotron radiation. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
10	Direct Determination of Oxidation States of Uranium in Mixed-Valent Uranium Oxides Using Total Reflection X-ray Fluorescence X-ray Absorption Near-Edge Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 871-876.	6.5	54
11	Elemental Investigation of the Leaf and Seed of Coriander Plant by Synchrotron Radiation X-ray Fluorescence Spectroscopy. <i>The National Academy of Sciences, India</i> , 2017, 40, 373-377.	1.3	9
12	Determination of impurities in graphite using synchrotron radiation based X-ray fluorescence spectrometry. <i>Applied Radiation and Isotopes</i> , 2017, 128, 210-215.	1.5	4
13	Depth-resolved chemical speciation of a W-B <sub>4</sub> C multilayer structure. <i>Physical Review B</i> , 2017, 96, .	3.2	4
14	Exploring interface morphology of a deeply buried layer in periodic multilayer. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	7
15	Measurement of L subshell fluorescence yields of some rare earth elements using synchrotron radiation. <i>X-Ray Spectrometry</i> , 2016, 45, 72-76.	1.4	7
16	L subshell fluorescent X-ray measurements to study CK transitions in the 66% Z region. <i>Pramana - Journal of Physics</i> , 2016, 87, 1.	1.8	2
17	Comparison of Stress Corrosion Cracking Susceptibility of Laser Machined and Milled 304 L Stainless Steel. <i>Lasers in Manufacturing and Materials Processing</i> , 2016, 3, 191-203.	2.2	5
18	Surface and interface analysis of nanomaterials at microfocus beamline (BL-16) of Indus-2. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	3

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19	Study of XANES near Ta-L edges in LiTaO <sub>3</sub> through thermal wave, fluorescence and first principles. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	13
20	Simultaneous measurements of X-ray reflectivity and grazing incidence fluorescence at BL-16 beamline of Indus-2. Review of Scientific Instruments, 2015, 86, 055102.	1.3	18
21	X-ray standing wave analysis of nanostructures using partially coherent radiation. Applied Physics Letters, 2015, 107, .	3.3	9
22	Effect of synchrotron polarization on grazing incidence X-ray fluorescence analysis. Journal of Analytical Atomic Spectrometry, 2014, 29, 2405-2413.	3.0	9
23	Synchrotron total reflection X-ray fluorescence at BL-16 microfocus beamline of Indus-2. AIP Conference Proceedings, 2014, . .	0.4	2
24	Development of high aspect ratio X-ray parabolic compound refractive lens at Indus-2 using X-ray lithography. Microsystem Technologies, 2014, 20, 2055-2060.	2.0	3
25	Microfocussing of synchrotron X-rays using X-ray refractive lens developed at Indus-2 deep X-ray lithography beamline. Pramana - Journal of Physics, 2014, 83, 119-129.	1.8	3
26	X-ray standing wave induced Compton and elastic scattering from thin periodic multilayer structures. Physical Review B, 2013, 87, .	3.2	12
27	Synchrotron-induced EDXRF determination of uranium and thorium in mixed uranium-thorium oxide pellets. X-Ray Spectrometry, 2013, 42, 4-7.	1.4	12
28	A microfocus X-ray fluorescence beamline at Indus-2 synchrotron radiation facility. Journal of Synchrotron Radiation, 2013, 20, 386-389.	2.4	64
29	Structural characterization of thin layered materials using x-ray standing wave enhanced elastic and inelastic scattering measurements. Journal of Physics Condensed Matter, 2010, 22, 175003.	1.8	4
30	Application of kinoform lens for X-ray reflectivity analysis. Journal of Synchrotron Radiation, 2010, 17, 237-242.	2.4	10
31	Applications of the $\hat{e}$ -CATGIXRF <sup>TM</sup> computer program to the grazing incidence X-ray fluorescence and X-ray reflectivity characterization of thin films and surfaces. X-Ray Spectrometry, 2010, 39, 127-134.	1.4	27
32	Characterization of trace embedded impurities in thin multilayer structures using synchrotron X-ray standing waves. Surface and Interface Analysis, 2010, 42, 110-116.	1.8	8
33	Characterization of germanium linear kinoform lenses at Diamond Light Source. Journal of Synchrotron Radiation, 2009, 16, 325-329.	2.4	17
34	Probing the average size of self-assembled metal nanoparticles using x-ray standing waves. Physical Review B, 2009, 80, .	3.2	18
35	Structural asymmetry of Si/Fe and Fe/Si interface in Fe/Si multilayers. Journal Physics D: Applied Physics, 2008, 41, 115307.	2.8	27
36	Investigation of metal nanoparticles on a Si surface using an x-ray standing wave field. Journal of Applied Physics, 2008, 103, 054311.	2.5	13

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37	Effect of Si layer thickness on the structural properties of a Co/Si multilayer system. Journal of Physics Condensed Matter, 2007, 19, 016001.	1.8	8
38	Pulsed laser deposition of metal films and nanoparticles in vacuum using subnanosecond laser pulses. Applied Optics, 2007, 46, 1205.	2.1	65
39	Surface and interface study of pulsed-laser-deposited off-stoichiometric NiMnSb thin films on a Si(100) substrate. Physical Review B, 2006, 73, .	3.2	17
40	Sample Preparation for Evaluation of Detection Limits in X-ray Fluorescence Spectrometry. Analytical Sciences, 2005, 21, 143-147.	1.6	26
41	Effect of Energy Dependence of Primary Beam Divergence on the X-ray Standing Wave Characterization of Layered Materials. Analytical Sciences, 2005, 21, 757-762.	1.6	11
42	Development of a total reflection X-ray fluorescence spectrometer for ultra-trace element analysis. Bulletin of Materials Science, 2002, 25, 435-441.	1.7	19
43	Analysis of stainless steel samples by energy dispersive X-ray fluorescence (EDXRF) spectrometry. Bulletin of Materials Science, 2001, 24, 633-638.	1.7	22
44	Non-Destructive Assessment of the Nutrient Profile of Underutilized Seeds Using Spectroscopic Probes. Analytical Letters, 0, , 1-17.	1.8	3