Ashok Kumar Yadav

List of Publications by Year
in descending order

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95 papers	1,804 citations	304602 22 h-index	315616 38 g-index
95 all docs	95 docs citations	95 times ranked	2136 citing authors

#	Article	IF	Citations
1	A comprehensive facility for EXAFS measurements at the INDUS-2 synchrotron source at RRCAT, Indore, India. Journal of Physics: Conference Series, 2014, 493, 012032.	0.3	146
2	Commissioning and first results of scanning type EXAFS beamline (BL-09) at INDUS-2 synchrotron source. AIP Conference Proceedings, 2014, , .	0.3	119
3	Luminescence Properties of SrZrO₃/Tb³⁺ Perovskite: Host-Dopant Energy-Transfer Dynamics and Local Structure of Tb³⁺. Inorganic Chemistry, 2016, 55, 1728-1740.	1.9	96
4	Deciphering the Role of Charge Compensator in Optical Properties of SrWO₄:Eu³⁺:A (A = Li⁺, Na⁺, K⁺): Spectroscopic Insight Using Photoluminescence, Positron Annihilation, and X-ray Absorption. Inorganic Chemistry, 2018, 57, 821-832.	1.9	82
5	Exploring Bursteinâ€“Moss type effects in nickel doped hematite dendrite nanostructures for enhanced photo-electrochemical water splitting. Physical Chemistry Chemical Physics, 2019, 21, 20463-20477.	1.3	77
6	Exploring Defect-Induced Emission in ZnAl₂O₄: An Exceptional Color-Tunable Phosphor Material with Diverse Lifetimes. Inorganic Chemistry, 2018, 57, 3963-3982.	1.9	72
7	Structural, electronic, magnetic, and transport properties of the equiatomic quaternary Heusler alloy CoRhMnGe: Theory and experiment. Physical Review B, 2017, 96, .	1.1	54
8	Origin of Blue-Green Emission in Î±-Zn₂P₂O₇ and Local Structure of Ln³⁺ Ion in Î±-Zn₂P₂O₇:Ln³⁺ (Ln = Sm,) Tj ETQq0 0 0 rgBT /Overloc 167-178.	1.9	53
9	Morphology-controlled synthesis of monodispersed graphitic carbon coated core/shell structured Ni/NiO nanoparticles with enhanced magnetoresistance. Physical Chemistry Chemical Physics, 2015, 17, 32398-32412.	1.3	42
10	Nitrogen Location and Tiâ€“O Bond Distances in Pristine and N-Doped TiO₂ Anatase Thin Films by X-ray Absorption Studies. Journal of Physical Chemistry C, 2015, 119, 17640-17647.	1.5	40
11	Investigation of New B-Site-Disordered Perovskite Oxide CaLaScRuO_{6+Î´}: An Efficient Oxygen Bifunctional Electrocatalyst in a Highly Alkaline Medium. ACS Applied Materials & Interfaces, 2020, 12, 9190-9200.	4.0	35
12	Investigation of Compression-Induced Deformations in Local Structure and Pore Architecture of ZIF-8 Using FTIR, X-ray Absorption, and Positron Annihilation Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 22273-22280.	1.5	34
13	Chemical shift of Mn and Cr K-edges in X-ray absorption spectroscopy with synchrotron radiation. Bulletin of Materials Science, 2013, 36, 1067-1072.	0.8	33
14	An insight into local environment of lanthanide ions in Sr₂SiO₄:Ln (Ln = Sm,) Tj ETQq0 0 0 rgBT /Overlock 10	1.4	32
15	Two-Dimensional Tungsten Oxide/Selenium Nanocomposite Fabricated for Flexible Supercapacitors with Higher Operational Voltage and Their Charge Storage Mechanism. ACS Applied Materials & Interfaces, 2021, 13, 8102-8119.	4.0	32
16	Self-Organized Single-Atom Tungsten Supported on the N-Doped Carbon Matrix for Durable Oxygen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 43586-43595.	4.0	29
17	Investigation of Fe doped ZnO thin films by X-ray absorption spectroscopy. RSC Advances, 2016, 6, 74982-74990.	1.7	27
18	Highly Durable and Active Pt/Sb-Doped SnO2 Oxygen Reduction Reaction Electrocatalysts Produced by Atomic Layer Deposition. ACS Applied Energy Materials, 2020, 3, 5774-5783.	2.5	27

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19	Extended x-ray absorption fine structure spectroscopy and x-ray absorption near edge spectroscopy study of aliovalent doped ceria to correlate local structural changes with oxygen vacancies clustering. Applied Physics Letters, 2016, 108, .	1.5	26
20	Insight into Speciation and Electrochemistry of Uranyl Ions in Deep Eutectic Solvents. Journal of Physical Chemistry B, 2020, 124, 181-189.	1.2	26
21	Unravelling oxygen driven Î± to Î² phase transformation in tungsten. Scientific Reports, 2020, 10, 14718.	1.6	26
22	Remarkable Enhancement in Extraction of Trivalent f-Block Elements Using a Macrocyclic Ligand with Four Diglycolamide Arms: Synthesis, Extraction, and Spectroscopic and Density Functional Theory Studies. Inorganic Chemistry, 2019, 58, 14885-14899.	1.9	24
23	Exploration of Atomic Scale Changes during Oxygen Vacancy Dissociation Mechanism in Nanostructure Co-Doped Ceria: As Electrolytes for IT-SOFC. Journal of the Electrochemical Society, 2019, 166, F544-F554.	1.3	24
24	In situ self-organization of uniformly dispersed Coâ€“Nâ€“C centers at moderate temperature without a sacrificial subsidiary metal. Green Chemistry, 2021, 23, 3115-3126.	4.6	24
25	Separation of Am³⁺ and Eu³⁺ using hexa-n-octylnitrilo triacetamide (HONTA): complexation, extraction, luminescence, EXAFS and DFT studies. Dalton Transactions, 2017, 46, 16631-16639.	1.6	23
26	Structural investigations on uranium(<scp>vi</scp>) and thorium(<scp>iv</scp>) complexation with TBP and DHOA: a spectroscopic study. New Journal of Chemistry, 2018, 42, 5243-5255.	1.4	23
27	First Report on the Complexation of Actinides and Lanthanides Using 2,2â€²,2â€²â€²-(((1,4,7-Triazonane-1,4,7-triyl)tris(2-oxoethane-2,1-diyl)) tris(oxy)) tris(N,N-dioctylacetamide): Synthesis, Extraction, Luminescence, EXAFS, and DFT Studies. Inorganic Chemistry, 2018, 57, 12987-12998.	1.9	23
28	Investigations on the hydrolysis step of copperâ€chlorine thermochemical cycle for hydrogen production. International Journal of Energy Research, 2020, 44, 2845-2863.	2.2	23
29	X-ray absorption spectroscopy of Mn doped ZnO thin films prepared by rf sputtering technique. AIP Advances, 2015, 5, 117138.	0.6	21
30	Investigations on local structures in new Bi_{2â^'2x}La_{2x}UO₆ (x =) Tj ETQq0 0 0 rgBT /Overlock 10 T 7650-7664.	1.6	21
31	Transport and magnetic properties of Fe doped CaMnO3. Journal of Applied Physics, 2012, 112, .	1.1	20
32	Interplay between local distortion at lattice sites with optical and electrical properties of Eu³⁺-doped MNbO₃ (M = Na and K) compounds. Materials Advances, 2020, 1, 2380-2394.	2.6	20
33	Review on local structural properties of ceria-based electrolytes for IT-SOFC. Ionics, 2017, 23, 1049-1057.	1.2	19
34	Self-Anchored Platinum-Decorated Antimony-Doped-Tin Oxide as a Durable Oxygen Reduction Electrocatalyst. ACS Catalysis, 2021, 11, 7006-7017.	5.5	17
35	CoFeVSb: A promising candidate for spin valve and thermoelectric applications. Physical Review B, 2022, 105, .	1.1	17
36	CO oxidation activity enhancement of Ce_{0.95}Cu_{0.05}O_{2â^'Î´} induced by Pd co-substitution. Catalysis Science and Technology, 2016, 6, 8104-8116.	2.1	16

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37	Achieving Bright Blue and Red Luminescence in Ca₂SnO₄ through Defect and Doping Manipulation. Journal of Physical Chemistry C, 2020, 124, 16090-16101.	1.5	16
38	Speciation and site occupancy of uranium in strontium orthosilicate by photoluminescence and X-ray absorption spectroscopy: A combined experimental and theoretical approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 453-458.	2.0	15
39	XANES, EXAFS, EPR, and First-Principles Modeling on Electronic Structure and Ferromagnetism in Mn Doped SnO₂ Quantum Dots. Journal of Physical Chemistry C, 2019, 123, 3067-3075.	1.5	15
40	Doping effect on the local structure of metamagnetic Co doped Ni/NiO:GO coreâ€“shell nanoparticles using X-ray absorption spectroscopy and the pair distribution function. Physical Chemistry Chemical Physics, 2019, 21, 1294-1307.	1.3	15
41	Investigation of in-situ oxygen vacancies dissociation mechanism and associated atomic scale reshuffling during oxy-ion migration in nanostructured co-doped ceria. Solid State Ionics, 2020, 345, 115157.	1.3	15
42	Investigating the evolution of local structure around Er and Yb in ZnO:Er and ZnO:Er, Yb on annealing using X-ray absorption spectroscopy. Journal of Applied Physics, 2018, 123, .	1.1	14
43	A diglycolamide-functionalized TREN-based dendrimer with a â€˜crab-likeâ€™ grip for the complexation of actinides and lanthanides. Dalton Transactions, 2018, 47, 15164-15172.	1.6	14
44	Electronic structure modulation of molybdenum-iron double-atom catalyst for bifunctional oxygen electrochemistry. Chemical Engineering Journal, 2022, 449, 137705.	6.6	14
45	Multiphoton light emission in barium stannate perovskites driven by oxygen vacancies, Eu³⁺ and La³⁺: accessing the role of defects and local structures. Physical Chemistry Chemical Physics, 2021, 23, 17479-17492.	1.3	13
46	Trimetallic oxide-hydroxide porous nanosheets for efficient water oxidation. Chemical Engineering Journal, 2022, 435, 135019.	6.6	13
47	Electronic structureâ€“sunlight driven water splitting activity correlation of (Zn_{1â^'y}Ga_y)(O_{1â^'z}N_z). Physical Chemistry Chemical Physics, 2014, 16, 23654-23662.	1.3	12
48	Photocatalytic H₂ Evolution from Waterâ€“Methanol System by Anisotropic InFeO₃(ZnO)_m Oxides without Cocatalyst in Visible Light. ACS Applied Materials & Interfaces, 2014, 6, 12321-12327.	4.0	12
49	Structural studies of spray pyrolysis synthesized oxygen deficient anatase TiO₂ thin films by using X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 6198-6206.	1.3	12
50	Exploring functionalized titania for task specific application of efficient separation of trivalent f-block elements. New Journal of Chemistry, 2020, 44, 6151-6162.	1.4	12
51	Local crystal structure in the vicinity of Cr in doped AlN thin films studied by X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 13084-13091.	1.3	11
52	X-ray absorption spectroscopy study of Ga-doping in reactively sputtered ZnO films. Thin Solid Films, 2020, 701, 137966.	0.8	11
53	Light Harvesting from Oxygen Vacancies and A- and B-Site Dopants in CaSnO₃ Perovskite through Efficient Photon Utilization and Local Site Engineering. ACS Applied Electronic Materials, 2021, 3, 3256-3270.	2.0	11
54	Stabilization of uranyl(<scp>v</scp>) by dipicolinic acid in aqueous medium. Dalton Transactions, 2021, 50, 1486-1495.	1.6	11

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55	Investigations into variations in local cationic environment in layered oxide series InGaO₃(ZnO)_m(m = 1â€“4). Dalton Transactions, 2014, 43, 2120-2126.	1.6	9
56	Evolution of transition metal charge states in correlation with the structural and magnetic properties in disordered double perovskites Ca_{2â^'x}La_xFeRuO₆ (0.5 â‰¤ x â‰¤ 2). Physical Chemistry Chemical Physics, 2021, 23, 21769-21783.	1.3	9
57	New Greener and Sustainable Methodology for Direct Sequestering and Analysis of Uranium Using a Maline Supramolecular Scaffold and Mechanistic Understanding through Speciation and Interaction Studies. ACS Sustainable Chemistry and Engineering, 2021, 9, 7846-7862.	3.2	9
58	Characterization of Sb-doped Bi₂UO₆ Solid Solutions by X-ray Diffraction and X-ray Absorption Spectroscopy. Analytical Sciences, 2013, 29, 579-584.	0.8	8
59	Local structure studies of Ni doped ZnO/PVDF composite free-standing flexible thin films using XPS and EXAFS studies. Journal of Polymer Research, 2016, 23, 1.	1.2	8
60	Effect of oxygen partial pressure in deposition ambient on the properties of RF magnetron sputter deposited Gd_2O_3 thin films. Applied Optics, 2017, 56, 6114.	0.9	8
61	Local structure investigation of Ni doped ZnO thin films by X-ray absorption spectroscopy. Thin Solid Films, 2018, 647, 70-79.	0.8	8
62	Cationic disorder: A pathway for demonstrating inverse exchange bias in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Gd</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">CoRuO</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 101, .	1.1	8
63	Highly Efficient Extraction of Trivalent f -Cations Using Several N -Pivot Tripodal Diglycolamide Ligands in an Ionic Liquid: The Role of Ligand Structure on Metal Ion Complexation. European Journal of Inorganic Chemistry, 2020, 2020, 191-199.	1.0	6
64	Effect of Zn doping on the magneto-caloric effect and critical constants of Mott insulator MnV2O4. AIP Advances, 2014, 4, .	0.6	5
65	Local Structure Investigation of Mnâ€•and Coâ€“Doped TiO₂ Thin Films by Xâ€Ray Absorption Spectroscopy. ChemistrySelect, 2017, 2, 11012-11024.	0.7	5
66	Complexation of U(VI) with Cucurbit[5]uril: Thermodynamic and Structural investigation in aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 354-362.	2.0	5
67	Highly Efficient and Selective Recovery of Technetium with a Novel MTPN Resin: A Remarkable Outcome of Bulky Cationâ€“Bulky Anion Interactions. Industrial & Engineering Chemistry Research, 2021, 60, 551-557.	1.8	5
68	Spectroscopic investigations on sorption of uranium onto suspended bentonite: effects of pH, ionic strength and complexing anions. Radiochimica Acta, 2015, 103, 293-303.	0.5	4
69	Local structural study of doped-ceria by EXAFS spectroscopy. AIP Conference Proceedings, 2016, , .	0.3	4
70	Probing local structure of co doped polyvinylidene fluoride-ZnO thin films using X-ray absorption spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 131, 115-123.	1.5	4
71	Structural, electronic, morphological, optical and magnetic properties of Mn0.03â€“xCoxZn0.97O (0Ââ‰ÂxÂâ‰Â0.03) nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 1938-1950.	1.1	4
72	Bright aspects of defects and dark traits of dopants in the photoluminescence of Er₂X₂O₇:Eu³⁺ (X = Ti and Zr) pyrochlore: an insight using EXAFS, positron annihilation and DFT. Materials Advances, 2021, 2, 3075-3087.	2.6	4

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73	Local Structure Investigations of Sequential Sorption of U and Fe on Polyacrylamide Hydroxamic Acid Resins. Inorganic Chemistry, 2021, 60, 10158-10166.	1.9	4
74	Phase evolution in thermally annealed Ni/Bi multilayers studied by X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 4415-4424.	1.3	4
75	The Magnetic Properties of Sol-Gel Synthesized TM_{0.03} Zn_{0.97} O (TM: Mn, Fe,) Tj ETQq1 1 0.784314 rgBT	0.7	3
76	Spectroscopic tools to probe multiple dopant induced elastic strain effect in doped ceria matrix: As electrolyte for ITSOFCs. Journal of Molecular Structure, 2021, 1235, 130258.	1.8	3
77	Microwave-Assisted Coprecipitation Synthesis and Local Structural Investigation on NiO, Î²-Ni(OH)₂/Co₃O₄ Nanosheets, and Co₃O₄ Nanorods Using X-ray Absorption Spectroscopy at Coâ€“Ni K-edge and Synchrotron X-ray Diffraction. ACS Omega, 2022, 7, 6700-6709.	1.6	3
78	Synthesis, thermal characterization and local structure studies of Gd doped Th0.7U0.3O2 using X-ray absorption spectroscopy. RSC Advances, 2016, 6, 63037-63048.	1.7	2
79	Probing local structures in (Ni/Co)â€codoped ZnO/PVDF composite flexible and freestanding films by using XAS and XPS studies. X-Ray Spectrometry, 2018, 47, 484-494.	0.9	2
80	Thermodynamic and spectroscopic investigation of Nb(V) and Pa(V) sorption on colloidal silica. Environmental Earth Sciences, 2020, 79, 1.	1.3	2
81	X-ray Mass attenuation coefficients of Nb2O5over the energy range 18.9132-19.6882. Journal of Physics: Conference Series, 2020, 1495, 012025.	0.3	2
82	Role of diluent in the unusual extraction of Am³⁺ and Eu³⁺ ions with benzene-centered tripodal diglycolamides: local structure studies using luminescence spectroscopy and XAS. New Journal of Chemistry, 2021, 45, 16794-16803.	1.4	2
83	X-ray absorption near-edge structure (XANES) studies on Sb-doped Bi[sub 2]UO[sub 6] at Bi and U edges. AIP Conference Proceedings, 2013, , .	0.3	1
84	Cation distribution in Ni1â^'xZnxFe2O4 using X-ray absorption spectroscopy. , 2014, , .		1
85	Structural and optical properties of transparent, tunable bandgap semiconductor: Î±-(AlxCr1â^'x)2O3. Journal of Applied Physics, 2020, 128, 135703.	1.1	1
86	Evolution of local structure and superconductivity in CaFe2As2. Journal of Physics Condensed Matter, 2021, 33, 19LT01.	0.7	1
87	High-performance aqueous sodium-ion/sulfur battery using elemental sulfur. Journal of Materials Chemistry A, 2022, 10, 11394-11404.	5.2	1
88	Local structural investigation of Sm in Sr2P2O7: A TRPLS, â€˜Srâ€™ K-edge EXAFS and Judd-Ofelt investigation. AIP Conference Proceedings, 2015, , .	0.3	0
89	Local structure investigation of Co doped ZnO thin films prepared by RF sputtering technique. AIP Conference Proceedings, 2016, , .	0.3	0
90	Local structure studies of Fe2TeO6 using x-ray absorption spectroscopy. AIP Conference Proceedings, 2016, , .	0.3	0

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91	Ti K-edge X-ray absorption spectra of spray pyrolysis synthesized TiO2-x and TiO2-x Nx thin films. AIP Conference Proceedings, 2017, , .	0.3	0
92	Local structure investigation on Mn and Co doped TiO2 thin films by x-ray absorption spectroscopy. AIP Conference Proceedings, 2018, , .	0.3	0
93	Optical and electrical studies of Al substituted Cr2O3. AIP Conference Proceedings, 2019, , .	0.3	0
94	Structural characterizations of copper complex using x-ray diffraction and x-ray absorption fine structure spectroscopy. AIP Conference Proceedings, 2019, , .	0.3	0
95	Determination x-ray mass attenuation coefficients for NbO2 compound by SR source. AIP Conference Proceedings, 2021, , .	0.3	0