Aniruddha Deb

List of Publications by Year
in descending order

79 papers	1,972 citations	201674 27 h-index	276875 41 g-index
80 all docs	80 docs citations	80 times ranked	3236 citing authors

#	Article	IF	Citations
1	Cu(I) Binding to Designed Proteins Reveals a Putative Copper Binding Site of the Human Line1 Retrotransposon Protein ORF1p. Inorganic Chemistry, 2022, 61, 5084-5091.	4.0	2
2	Synthesis and characterization of amorphous Fe2.75Dy-oxide thin films demonstrating room-temperature semiconductor, magnetism, and optical transparency. Journal of Applied Physics, 2021, 129, 035701.	2.5	0
3	Nitrite reductase activity within an antiparallel de novo scaffold. Journal of Biological Inorganic Chemistry, 2021, 26, 855-862.	2.6	4
4	Open Reading Frame 1 Protein of the Human Long Interspersed Nuclear Element 1 Retrotransposon Binds Multiple Equivalents of Lead. Journal of the American Chemical Society, 2021, 143, 15271-15278.	13.7	3
5	Ultrafast XANES Monitors Femtosecond Sequential Structural Evolution in Photoexcited Coenzyme B₁₂. Journal of Physical Chemistry B, 2020, 124, 199-209.	2.6	17
6	Probing a Silent Metal: A Combined X-ray Absorption and Emission Spectroscopic Study of Biologically Relevant Zinc Complexes. Inorganic Chemistry, 2020, 59, 13551-13560.	4.0	16
7	Traversing the Redâ€"Greenâ€"Blue Color Spectrum in Rationally Designed Cupredoxins. Journal of the American Chemical Society, 2020, 142, 15282-15294.	13.7	10
8	An Interprotein Coâ€"S Coordination Complex in the B₁₂-Trafficking Pathway. Journal of the American Chemical Society, 2020, 142, 16334-16345.	13.7	20
9	Making or Breaking Metalâ€Dependent Catalytic Activity: The Role of Stammers in Designed Threeâ€Stranded Coiled Coils. Angewandte Chemie, 2020, 132, 20625-20629.	2.0	0
10	Making or Breaking Metalâ€Dependent Catalytic Activity: The Role of Stammers in Designed Threeâ€Stranded Coiled Coils. Angewandte Chemie - International Edition, 2020, 59, 20445-20449.	13.8	10
11	Determining the coordination environment and electronic structure of polymer-encapsulated cobalt phthalocyanine under electrocatalytic CO₂ reduction conditions using <i>in situ</i> X-Ray absorption spectroscopy. Dalton Transactions, 2020, 49, 16329-16339.	3.3	29
12	The Photoactive Excited State of the B₁₂-Based Photoreceptor CarH. Journal of Physical Chemistry B, 2020, 124, 10732-10738.	2.6	25
13	Ballistic excited state dynamics revealed by polarized fs-XANES. EPJ Web of Conferences, 2019, 205, 05014.	0.3	1
14	Probing the Excited State of Methylcobalamin Using Polarized Time-Resolved X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 6042-6048.	2.6	12
15	Antivitamins B₁₂ in a Microdrop: The Excited-State Structure of a Precious Sample Using Transient Polarized X-ray Absorption Near-Edge Structure. Journal of Physical Chemistry Letters, 2019, 10, 5484-5489.	4.6	10
16	Unveiling the pseudocapacitive charge storage mechanisms of nanostructured vanadium nitrides using in-situ analyses. Nano Energy, 2019, 60, 72-81.	16.0	57
17	Methylated Histidines Alter Tautomeric Preferences that Influence the Rates of Cu Nitrite Reductase Catalysis in Designed Peptides. Journal of the American Chemical Society, 2019, 141, 7765-7775.	13.7	15
18	<i>M-BLANK</i>: a program for the fitting of X-ray fluorescence spectra. Journal of Synchrotron Radiation, 2019, 26, 497-503.	2.4	21

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19	Further insights into the metal ion binding abilities and the metalation pathway of a plant metallothionein from Musa acuminata. Journal of Biological Inorganic Chemistry, 2018, 23, 91-107.	2.6	16
20	Incorporation of second coordination sphere d-amino acids alters Cd(II) geometries in designed thiolate-rich proteins. Journal of Biological Inorganic Chemistry, 2018, 23, 123-135.	2.6	16
21	Clarifying the Copper Coordination Environment in a <i>de Novo</i> Designed Red Copper Protein. Inorganic Chemistry, 2018, 57, 12291-12302.	4.0	19
22	Ultrafast X-ray Absorption Near Edge Structure Reveals Ballistic Excited State Structural Dynamics. Journal of Physical Chemistry A, 2018, 122, 4963-4971.	2.5	34
23	Electrochemical and structural investigation of Mg-doped Li3V(2-2x/3)Mgx(PO4)3. Journal of Power Sources, 2018, 396, 491-497.	7.8	10
24	Polarized XANES Monitors Femtosecond Structural Evolution of Photoexcited Vitamin B₁₂. Journal of the American Chemical Society, 2017, 139, 1894-1899.	13.7	64
25	Development of a single-cell X-ray fluorescence flow cytometer. Journal of Synchrotron Radiation, 2016, 23, 901-908.	2.4	10
26	Quantum Coherence and Temperature Dependence of the Anomalous State of Nanoconfined Water in Carbon Nanotubes. Journal of Physical Chemistry Letters, 2016, 7, 4433-4437.	4.6	17
27	Electrochemical and Structural Investigation of the Mechanism of Irreversibility in Li₃V₂(PO₄)₃ Cathodes. Journal of Physical Chemistry C, 2016, 120, 7005-7012.	3.1	51
28	Pseudocapacitive charge storage via hydrogen insertion for molybdenum nitrides. Journal of Power Sources, 2015, 289, 154-159.	7.8	36
29	<i>De Novo</i> Design and Characterization of Copper Metallopeptides Inspired by Native Cupredoxins. Inorganic Chemistry, 2015, 54, 9470-9482.	4.0	25
30	A Deâ€¦Novo Designed Metalloenzyme for the Hydration of CO₂. Angewandte Chemie - International Edition, 2014, 53, 7900-7903.	13.8	69
31	Synthesis, Characterization, and Electrochemical Performance of Ce-Doped Ordered Macroporous Li₃V₂(PO₄)₃/C Cathode Materials for Lithium Ion Batteries. Industrial & Engineering Chemistry Research, 2014, 53, 19525-19532.	3.7	24
32	Abnormal metal levels in the primary visual pathway of the DBA/2J mouse model of glaucoma. BioMetals, 2014, 27, 1291-1301.	4.1	16
33	Mesoporous Li3V2(PO4)3@CMK-3 nanocomposite cathode material for lithium ion batteries. Journal of Power Sources, 2014, 253, 294-299.	7.8	32
34	The electrochemical and local structural analysis of the mesoporous Li4Ti5O12 anode. Journal of Power Sources, 2014, 268, 294-300.	7.8	22
35	Nanostructured Li 3 V 2 (PO 4) 3 /C composite as high-rate and long-life cathode material for lithium ion batteries. Electrochimica Acta, 2014, 143, 297-304.	5.2	36
36	Understanding Spin Structure in Metallacrown Single-Molecule Magnets using Magnetic Compton Scattering. Journal of the American Chemical Society, 2014, 136, 4889-4892.	13.7	45

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37	Sn-contained N-rich carbon nanowires for high-capacity and long-life lithium storage. Electrochimica Acta, 2014, 127, 390-396.	5.2	34
38	The Quantum Mechanics of Nano-Confined Water: New Cooperative Effects Revealed with Neutron and X-Ray Compton Scattering. Journal of Physics: Conference Series, 2014, 571, 012001.	0.4	6
39	Zinc stabilization of prefibrillar oligomers of human islet amyloid polypeptide. Chemical Communications, 2013, 49, 3339.	4.1	72
40	Competition of 3d/4f orbitals due to competing conductivity and ferromagnetism in Fe/CoAs layers in Eu(Fe0.89Co0.11)2As2. Journal of Applied Physics, 2013, 113, 013907.	2.5	1
41	Anomalous Ground State of the Electrons in Nanoconfined Water. Physical Review Letters, 2013, 111, 036803.	7.8	60
42	Imaging of 3dMn orbitals in the ferromagnetic state for Ca-substituted manganite: Magnetic Compton investigation. Physical Review B, 2012, 85, .	3.2	0
43	Competing Ferromagnetism and Superconductivity on FeAs Layers inEuFe2(As0.73P0.27)2. Physical Review Letters, 2010, 105, 207003.	7.8	27
44	Structural and Electrochemical Investigation of Li(Ni[sub 0.4]Co[sub 0.15]Al[sub 0.05]Mn[sub) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	2.9	32
45	X-Ray Diffuse Scattering Measurements of Nucleation Dynamics at Femtosecond Resolution. Physical Review Letters, 2008, 100, 135502.	7.8	58
46	Effect of substitution of Cl and Br for Se in the ferromagnetic spinelCuCr2Se4: A magnetic Compton profile study. Physical Review B, 2007, 75, .	3.2	5
47	Carrier-Density-Dependent Lattice Stability in InSb. Physical Review Letters, 2007, 98, 125501.	7.8	52
48	Publisherâ€™s Note: Carrier-Density-Dependent Lattice Stability in InSb [Phys. Rev. Lett.98, 125501 (2007)]. Physical Review Letters, 2007, 98, .	7.8	1
49	In Situ X-Ray Absorption Spectroscopic Study of Li[sub 1.05]Ni[sub 0.35]Co[sub 0.25]Mn[sub 0.4]O[sub 2] Cathode Material Coated with LiCoO[sub 2]. Journal of the Electrochemical Society, 2007, 154, A534.	2.9	42
50	In situ X-ray absorption spectroscopyâ€"A probe of cathode materials for Li-ion cells. Fluid Phase Equilibria, 2006, 241, 4-19.	2.5	27
51	Characterization ofLa0.8Sr0.2FeO3â^'Î´andLa0.7Sr0.2FeO3â^'Î´as a function of temperature by x-ray absorption spectroscopy. Physical Review B, 2006, 73, .	3.2	19
52	Local structure of LiNi0.5Mn0.5O2 cathode material probed by in situ x-ray absorption spectroscopy. Journal of Applied Physics, 2006, 99, 063701.	2.5	26
53	Structural investigations of LiFePO4 electrodes and in situ studies by Fe X-ray absorption spectroscopy. Electrochimica Acta, 2005, 50, 5200-5207.	5.2	57
54	X-ray magnetic circular dichroismâ€"a high energy probe of magnetic properties. Coordination Chemistry Reviews, 2005, 249, 3-30.	18.8	132

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55	High-Resolution X-Ray Emission Spectroscopy of Molybdenum Compounds.. ChemInform, 2005, 36, no.	0.0	0
56	Synchrotron X-Ray Absorption Study of LiFePO[sub 4] Electrodes. Journal of the Electrochemical Society, 2005, 152, A191.	2.9	69
57	In situx-ray absorption spectroscopic study of the Li[Ni1â^•3Co1â^•3Mn1â^•3]O2 cathode material. Journal of Applied Physics, 2005, 97, 113523.	2.5	92
58	High-Resolution X-ray Emission Spectroscopy of Molybdenum Compounds. Inorganic Chemistry, 2005, 44, 2579-2581.	4.0	22
59	Ruâ^'Oorbital hybridization and orbital occupation inSrRuO3: A magnetic Compton-profile study. Physical Review B, 2004, 70, .	3.2	15
60	Evidence of negative spin polarization in ferromagneticSr2FeMoO6as observed in a magnetic Compton profile study. Physical Review B, 2004, 70, .	3.2	3
61	A magnetic Compton scattering study of double perovskite Sr2FeMoO6. Journal of Physics Condensed Matter, 2004, 16, S5717-S5720.	1.8	1
62	X-ray absorption spectroscopy study of the LixFePO4cathode during cycling using a novel electrochemicalin situreaction cell. Journal of Synchrotron Radiation, 2004, 11, 497-504.	2.4	55
63	Structural Investigations of LiFePO4Electrodes by Fe X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 7046-7051.	2.6	56
64	Soft-x-ray magnetic-circular-dichroism study of the colossal-magnetoresistance spinelFe0.5Cu0.5Cr2S4. Physical Review B, 2003, 68, .	3.2	11
65	Compton scattering study of the electron momentum density inSr2RuO4. Physical Review B, 2003, 67, .	3.2	6
66	Magnetic Compton scattering study of colossal magnetoresistance materialsFe1â^'xCuxCr2S4. Physical Review B, 2002, 66, .	3.2	9
67	Magnetic Compton scattering study of theCo2FeGaHeusler alloy: Experiment and theory. Physical Review B, 2001, 63, .	3.2	42
68	Present status of the Cauchois-type Compton Scattering Spectrometer at SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1109-1112.	1.6	20
69	Spin-dependent electron momentum densities in Co2FeGa studied by Compton scattering. Radiation Physics and Chemistry, 2001, 61, 545-546.	2.8	0
70	Background noise in a Cauchois-type high-resolution Compton scattering spectrometer at SPring-8. Journal of Physics and Chemistry of Solids, 2001, 62, 2099-2102.	4.0	6
71	Spin-dependent electron momentum density in theNi2MnSnHeusler alloy. Physical Review B, 2001, 63, .	3.2	21
72	Compton scattering study on the electronic properties of niobium carbide and niobium nitride. Radiation Physics and Chemistry, 2000, 57, 135-144.	2.8	3

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73	Electronic structure of the Cu2MnAl Heusler alloy. Journal of Physics Condensed Matter, 2000, 12, 2997-3012.	1.8	40
74	Compton profile of scandium oxide. Radiation Physics and Chemistry, 1999, 54, 113-116.	2.8	6
75	Compton scattering studies of the electron momentum distribution in indium phosphide. Radiation Physics and Chemistry, 1999, 54, 335-344.	2.8	7
76	Compton scattering studies on niobium carbide and vanadium carbide. Radiation Physics and Chemistry, 1998, 51, 517-518.	2.8	2
77	The electronic structure and chemical bonding mechanism of silver oxide. Journal of Physics Condensed Matter, 1998, 10, 11719-11729.	1.8	12
78	Compton profile of vanadium carbide and vanadium nitride. Physical Review B, 1996, 53, 13393-13399.	3.2	6
79	Compton profile of cuprous oxide by linear combination of Gaussian orbitals. Journal of Physics Condensed Matter, 1996, 8, 5139-5148.	1.8	4