

# Conny SÃ¥the

## List of Publications by Year in descending order

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62  
papers

2,208  
citations

279798

23  
h-index

223800

46  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2841  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Dimensional Quantum-Confinement Effect in $\hat{I}\pm$ -Fe <sub>2</sub> O <sub>3</sub> Ultrafine Nanorod Arrays. <i>Advanced Materials</i> , 2005, 17, 2320-2323.	21.0	338
2	X-Ray Emission Spectroscopy of Hydrogen Bonding and Electronic Structure of Liquid Water. <i>Physical Review Letters</i> , 2002, 89, 137402.	7.8	242
3	Resonant X-Ray Raman Spectra of CuddExcitations inSr <sub>2</sub> CuO <sub>2</sub> Cl <sub>2</sub> . <i>Physical Review Letters</i> , 1998, 80, 5204-5207.	7.8	162
4	Electronic structure of carbon nitride thin films studied by X-ray spectroscopy techniques. <i>Thin Solid Films</i> , 2005, 471, 19-34.	1.8	139
5	Quenching of Symmetry Breaking in Resonant Inelastic X-Ray Scattering by Detuned Excitation. <i>Physical Review Letters</i> , 1996, 77, 5035-5038.	7.8	116
6	Nitrogen bonding structure in carbon nitride thin films studied by soft x-ray spectroscopy. <i>Applied Physics Letters</i> , 2001, 79, 4348-4350.	3.3	114
7	Structural and electronic properties of low dielectric constant fluorinated amorphous carbon films. <i>Applied Physics Letters</i> , 1998, 72, 3353-3355.	3.3	99
8	Local structures of liquid water studied by x-ray emission spectroscopy. <i>Physical Review B</i> , 2004, 69, .	3.2	83
9	Influence of the Radiative Decay on the Cross Section for Double Excitations in Helium. <i>Physical Review Letters</i> , 1999, 83, 947-950.	7.8	75
10	Accurate prediction of X-ray pulse properties from a free-electron laser using machine learning. <i>Nature Communications</i> , 2017, 8, 15461.	12.8	71
11	Radiative and Relativistic Effects in the Decay of Highly Excited States in Helium. <i>Physical Review Letters</i> , 2000, 85, 1202-1205.	7.8	56
12	Resonant soft X-ray fluorescence spectra of molecules. <i>Applied Physics A: Materials Science and Processing</i> , 1997, 65, 97-105.	2.3	39
13	The SPECIES beamline at the MAX IV Laboratory: a facility for soft X-ray RIXS and APXPS. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 344-353.	2.4	38
14	The electronic structure of polyaniline and doped phases studied by soft x-ray absorption and emission spectroscopies. <i>Journal of Chemical Physics</i> , 1999, 111, 4756-4761.	3.0	36
15	Core level ionization dynamics in small molecules studied by x-ray-emission threshold-electron coincidence spectroscopy. <i>Physical Review A</i> , 2005, 71, .	2.5	36
16	Competition between decay and dissociation of core-excited carbonyl sulfide studied by x-ray scattering. <i>Physical Review A</i> , 1999, 59, 4281-4287.	2.5	31
17	High Resolution Multiphoton Spectroscopy by a Tunable Free-Electron-Laser Light. <i>Physical Review Letters</i> , 2014, 113, 193201.	7.8	31
18	Ground state potential energy surfaces around selected atoms from resonant inelastic x-ray scattering. <i>Scientific Reports</i> , 2016, 6, 20054.	3.3	30

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19	Resonant and nonresonant x-ray scattering spectra of some poly(phenylenevinylene)s. Journal of Chemical Physics, 1998, 108, 5990-5996.	3.0	29
20	Electronic structure of single-wall carbon nanotubes studied by resonant inelastic X-ray scattering. Applied Physics A: Materials Science and Processing, 1998, 67, 89-93.	2.3	28
21	Spin transition in LaCoO <sub>3</sub> investigated by resonant soft X-ray emission spectroscopy. Europhysics Letters, 2004, 68, 289-295.	2.0	28
22	Stimulated X-ray Raman scattering – a critical assessment of the building block of nonlinear X-ray spectroscopy. Faraday Discussions, 2016, 194, 305-324.	3.2	25
23	Formation of titanium fulleride studied by x-ray spectroscopies. Physical Review B, 1999, 59, 12667-12671.	3.2	23
24	Bond formation in titanium fulleride compounds studied through x-ray emission spectroscopy. Physical Review B, 2001, 63, .	3.2	23
25	The electronic structure of poly(pyridine-2,5-diyl) investigated by soft X-ray absorption and emission spectroscopies. Chemical Physics, 1998, 237, 295-304.	1.9	20
26	Bond-Length-Dependent Core Hole Localization Observed in Simple Hydrocarbons. Physical Review Letters, 1999, 83, 1315-1318.	7.8	19
27	Photon-recoil imaging: Expanding the view of nonlinear x-ray physics. Science, 2020, 369, 1630-1633.	12.6	19
28	Upgrade of the SPECIES beamline at the MAX IV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 588-601.	2.4	19
29	Probing the local electronic structure in the H induced metal - insulator transition of Y. Journal of Physics Condensed Matter, 1999, 11, L119-L125.	1.8	16
30	Double Excitations of Helium in Weak Static Electric Fields. Physical Review Letters, 2006, 96, 043002.	7.8	16
31	Hydrogen-induced changes of the electronic states in ultrathin single-crystal vanadium layers. Physical Review B, 1997, 55, 12914-12917.	3.2	14
32	Coupled electron-nuclear dynamics in resonant Raman scattering of CO molecules. Physical Review A, 2016, 93, .	2.5	13
33	Magnetic circular dichroism in X-ray fluorescence of Heusler alloys at threshold excitation. Solid State Communications, 2000, 117, 79-82.	1.9	12
34	Rydberg-Resolved Resonant Inelastic Soft X-Ray Scattering: Dynamics at Core Ionization Thresholds. Physical Review Letters, 2015, 114, 133001.	7.8	12
35	Anomalously strong two-electron one-photon X-ray decay transitions in CO caused by avoided crossing. Scientific Reports, 2016, 6, 20947.	3.3	11
36	Resonant inelastic soft X-ray scattering spectra at the nitrogen and carbon K-edges of poly(pyridine-2,5-diyl). Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 573-578.	1.7	10

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37	Resonant Mn L Emission Spectra of Layered Manganite $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$ . Journal of the Physical Society of Japan, 2005, 74, 1772-1776.	1.6	10
38	Resonant LII,III x-ray Raman scattering from HCl. Physical Review A, 2006, 74, .	2.5	10
39	Study of oxygen-C 60 compound formation by NEXAFS and RIXS. European Physical Journal D, 2001, 16, 357-360.	1.3	9
40	Magnetic-Field Induced Enhancement in the Fluorescence Yield Spectrum of Doubly Excited States in Helium. Physical Review Letters, 2006, 97, 253002.	7.8	9
41	Auger electron and photoabsorption spectra of glycine in the vicinity of the oxygen K-edge measured with an X-FEL. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 234004.	1.5	9
42	Spectroscopic study of CNx films grown by magnetron sputter deposition. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 551-554.	1.7	8
43	Resonant x-ray emission from gas-phase $\text{TiCl}_4$ . Physical Review A, 2000, 63, .	2.5	7
44	PROBING THE $\text{Mn}^{3+}$ SUBLATTICE IN $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ BY RESONANT INELASTIC SOFT X-RAY SCATTERING AT THE $\text{Mn}_{L_{2,3}}$ EDGE. Surface Review and Letters, 2002, 09, 989-992.	1.1	7
45	Vibrational resonant inelastic X-ray scattering in liquid acetic acid: a ruler for molecular chain lengths. Scientific Reports, 2021, 11, 4098.	3.3	7
46	Resonant $\text{O K}_{\beta}$ emission spectra of $\text{CuGeO}_3$ single-crystal. Solid State Communications, 2001, 118, 619-622.	1.9	6
47	Bonding mechanism in the transition-metal fullerenes studied by symmetry-selective resonant x-ray inelastic scattering. Physical Review B, 2001, 63, .	3.2	6
48	Intra- versus inter-site electronic excitations in $\text{NdNiO}_3$ by resonant inelastic ultra-soft X-ray scattering at Ni 3p edge. Solid State Communications, 2005, 135, 716-720.	1.9	5
49	Core-hole localization and ultra-fast dissociation in $\text{SF}_6$ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 185101.	1.5	5
50	A five-axis parallel kinematic mirror unit for soft X-ray beamlines at MAXÅ€...IV. Journal of Synchrotron Radiation, 2020, 27, 262-271.	2.4	5
51	Core Electron Spectroscopy of Chromium Hexacarbonyl. A Comparative Theoretical and Experimental Study. Physica Scripta, 1999, 59, 138-146.	2.5	4
52	Theoretical investigation of the thickness dependence of soft-x-ray emission from thin AlAs(100) layers buried in GaAs. Physical Review B, 2000, 61, 5540-5545.	3.2	4
53	The characterization of undulator radiation at MAXII using a soft X-ray fluorescence spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 431, 285-293.	1.6	3
54	Valence excitations observed in resonant soft X-ray emission spectra of $\text{K}_2\text{Ni}(\text{CN})_4 \cdot \text{H}_2\text{O}$ at the Ni 2p edge. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 909-913.	1.7	3

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55	Direct observation of interface effects of thin AlAs(100) layers buried in GaAs. Applied Surface Science, 2000, 166, 309-312.	6.1	2
56	Motion control system of MAX IV Laboratory soft x-ray beamlines. AIP Conference Proceedings, 2016, , .	0.4	2
57	An ultra-high-stability four-axis ultra-high-vacuum sample manipulator. Journal of Synchrotron Radiation, 2021, 28, 1059-1068.	2.4	2
58	Hydrogen bond effects in multimode nuclear dynamics of acetic acid observed via resonant x-ray scattering. Journal of Chemical Physics, 2021, 154, 214304.	3.0	2
59	Stimulated X-Ray Raman Scattering with Free-Electron Laser Sources. Springer Proceedings in Physics, 2016, , 201-207.	0.2	1
60	Resonant inelastic soft x-ray scattering on LaPt <sub>2</sub> Si <sub>2</sub> . Journal of Physics Condensed Matter, 0, , .	1.8	1
61	Spectroscopic Studies of Low Dielectric Constant Fluorinated Amorphous Carbon Films for Ulsi Integrated Circuits. Materials Research Society Symposia Proceedings, 1998, 524, 169.	0.1	0
62	Resonant CuL <sub>1,2</sub> emission spectra of CuGeO <sub>3</sub> single crystal. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2880-2883.	0.8	0