

Hasan Yavas

List of Publications by Year in descending order

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36
papers

806
citations

393982

19
h-index

525886

27
g-index

36
all docs

36
docs citations

36
times ranked

1652
citing authors

#	ARTICLE	IF	CITATIONS
1	X-Ray Resonant Photoexcitation: Linewidths and Energies of $K_{\pm 1}$ Transitions in Highly Charged Fe Ions. Physical Review Letters, 2013, 111, 103002.	2.9	64
2	MERIX Next generation medium energy resolution inelastic X-ray scattering instrument at the APS. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 140-149.	0.8	54
3	Proximate ferromagnetic state in the Kitaev model material Ir_2RuCl_6 . Nature Communications, 2021, 12, 4512.	5.8	47
4	Crystal Field Ground State of the Strongly Correlated Topological Insulator SmB_6 . Physical Review Letters, 2018, 120, 016402.	2.9	37
5	The Macromolecular Femtosecond Crystallography Instrument at the Linac Coherent Light Source. Journal of Synchrotron Radiation, 2019, 26, 346-357.	1.0	37
6	Observation of spin-orbit excitations and Hund's multiplets in CaMn_2P_2 . Physical Review B, 2019, 100, .	12.4	34
7	Spin waves and spin-state transitions in a ruthenate high-temperature antiferromagnet. Nature Materials, 2019, 18, 563-567.	13.3	31
8	Sound velocities of compressed Fe ₃ C from simultaneous synchrotron X-ray diffraction and nuclear resonant scattering measurements. Journal of Synchrotron Radiation, 2009, 16, 714-722.	1.0	29
9	Observation of phonons with resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2010, 22, 485601.	0.7	29
10	Improved focusing capability for inelastic X-ray spectrometer at 3-ID of the APS: A combination of toroidal and Kirkpatrick-Baez (KB) mirrors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 649, 166-168.	0.7	28
11	Probing Transient Valence Orbital Changes with Picosecond Valence-to-Core X-ray Emission Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 2620-2626.	1.5	27
12	Single-photon excitation of $K_{\pm 1}$ heliumlike $K\alpha$ transitions in highly charged Fe ions. Results supporting quantum electrodynamics predictions. Physical Review A, 2015, 92, .	1.0	26
13	Resonant inelastic X-ray scattering spectrometer with 25 meV resolution at the Cu K_{β} -edge. Journal of Synchrotron Radiation, 2015, 22, 961-967.	1.0	26
14	Protein elasticity probed with two synchrotron-based techniques. Journal of Chemical Physics, 2010, 132, 085103.	1.2	25
15	Pressure driven spin transition in siderite and magnesiosiderite single crystals. Scientific Reports, 2017, 7, 16526.	1.6	24
16	Sapphire analyzers for high-resolution X-ray spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 149-151.	0.7	22
17	Absolute measurement of radiative and Auger rates of $K_{\pm 1}$ in highly charged Fe ions. Physical Review A, 2015, 91, .	1.5	22
18	X-ray Raman spectroscopy of lithium-ion battery electrolyte solutions in a flow cell. Journal of Synchrotron Radiation, 2018, 25, 537-542.	1.0	20

#	ARTICLE	IF	CITATIONS
19	Shear wave anisotropy of textured hcp-Fe in the Earth's inner core. Earth and Planetary Science Letters, 2010, 298, 361-366.	1.8	19
20	Laser-induced transient magnons in Sr ₃ Ir ₂ O ₇ throughout the Brillouin zone. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
21	Iron speciation in minerals and glasses probed by $M_{2/3}$ -edge X-ray Raman scattering spectroscopy. Contributions To Mineralogy and Petrology, 2014, 167, 1.	1.2	18
22	Combining X-ray $K_{1,3}$, valence-to-core, and X-ray Raman spectroscopy for studying Earth materials at high pressure and temperature: the case of siderite. Journal of Analytical Atomic Spectrometry, 2019, 34, 384-393.	1.6	17
23	Up to 100 ÅGPa by K $\tilde{\Gamma}^2$ in Amorphous GeO_2	2.8	17
24	The quartet ground state in CeB ₆ : An inelastic x-ray scattering study. Europhysics Letters, 2017, 117, 17003.	0.7	15
25	Direct imaging of orbitals in quantum materials. Nature Physics, 2019, 15, 559-562.	6.5	15
26	Disentangling x-ray dichroism and birefringence via high-purity polarimetry. Optica, 2021, 8, 56.	4.8	15
27	New materials for high-energy-resolution x-ray optics. MRS Bulletin, 2017, 42, 424-429.	1.7	14
28	A portable on-axis laser-heating system for near-90 Å° X-ray spectroscopy: application to ferropericlae and iron silicide. Journal of Synchrotron Radiation, 2020, 27, 414-424.	1.0	14
29	IRIXS: a resonant inelastic X-ray scattering instrument dedicated to X-rays in the intermediate energy range. Journal of Synchrotron Radiation, 2020, 27, 538-544.	1.0	13
30	A multi-MHz single-shot data acquisition scheme with high dynamic range: pump-probe X-ray experiments at synchrotrons. Journal of Synchrotron Radiation, 2016, 23, 1409-1423.	1.0	12
31	Performance of quartz- and sapphire-based double-crystal high-resolution (~ 10 meV) RIXS monochromators under varying power loads. Journal of Synchrotron Radiation, 2018, 25, 1030-1035.	1.0	10
32	Orientation of the ground-state orbital in CeCoIn ₅ and CeRhIn ₅ Physical Review B, 2019, 99, .		
33	Evolution of the electronic structure in Ta ₂ across the structural transition revealed by resonant inelastic x-ray scattering. Physical Review B, 2021, 103, .	1.1	7
34	Spin and charge excitations in the correlated multiband metal Ca ₃ O ₇ Physical Review B, 2021, 103, .	1.1	6
35	Specific Heat of Olive Oil to 356 MPa. JAOCS, Journal of the American Oil Chemists' Society, 2010, 87, 1517-1520.	0.8	3
36	A High-Resolution RIXS Spectrometer for Correlated Electron Materials. AIP Conference Proceedings, 2005, , .	0.3	1