

Vladimir Horvat

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Dissociation of multicharged CO molecular ions produced in collisions with 97-MeVAr14+: Total-kinetic-energy distributions. Physical Review A, 1992, 45, 2903-2914.	2.5	62
2	Projectile electron loss and capture in MeV/u collisions of U28+ with H2, N2 and Ar. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 4539-4550.	1.5	57
3	TargetZdependence and additivity of cross sections for electron loss by 6-MeV/amuXe18+projectiles. Physical Review A, 2003, 67, .	2.5	53
4	Projectile and target ionization in MeV u-1collisions of Xe ions with N2. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 1893-1907.	1.5	48
5	Multiple electron stripping of 3.4 MeV/amu Kr7+ and Xe11+ in nitrogen. Physics of Plasmas, 2001, 8, 1753-1756.	1.9	47
6	Cross sections for charge change in argon and equilibrium charge states of 3.5MeV/amu uranium ions passing through argon and carbon targets. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 251-260.	1.4	37
7	Dissociation of multicharged CO molecular ions produced in collisions with 97-MeVAr14+: Dissociation fractions and branching ratios. Physical Review A, 1992, 46, 3929-3934.	2.5	28
8	ProjectileZdependence of CuK-shell vacancy production in 10-MeV/amu ion-solid collisions. Physical Review A, 1999, 60, 2959-2969.	2.5	27
9	\hat{I}^2 Decay ofCa38: Sensitive test of Isospin Symmetry-Breaking Corrections from Mirror Superallowed $0^+ \rightarrow 0^+$ Transitions. Physical Review Letters, 2014, 112, 102502.	7.8	25
10	Double-Photon Decay in Xenon Atoms. Physical Review Letters, 1986, 56, 2469-2472.	7.8	22
11	Precise half-life measurement of the superallowed \hat{I}^2 emitter ^{38}Ca . Physical Review C, 2011, 84, .	2.9	21
12	Precise half-life measurement of the superallowed \hat{I}^2 +emitter ^{38}Ca . Physical Review C, 2011, 84, .	2.9	20
13	Multiple electron stripping of heavy ion beams. Laser and Particle Beams, 2002, 20, 551-554.	1.0	19
14	3-D imaging of binary dissociation events induced by heavy ion impact. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 94-97.	1.4	18
15	Kinetic-energy release in the dissociative capture-ionization of CO molecules by 97-MeVAr14+ions. Physical Review A, 1996, 53, 1187-1190.	2.5	18
16	Electron stripping cross-sections for fast, low charge state uranium ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 333-336.	1.6	18
17	Systematics of $K\hat{I}^2$ x-ray satellite structure. Physical Review A, 2006, 74, .	2.5	13
18	Two-photon decay in silver and hafnium atoms. Physical Review A, 1992, 46, 132-141.	2.5	12

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19	Target K-vacancy production by 2.5 to 25 MeV/amu Ar, Kr, and Xe ions. Physical Review A, 2006, 74, .	2.5	12
20	$\langle \text{K} \hat{I}_{\pm} \rangle$ x-ray satellite and hypersatellite spectra of vanadium metal and oxides excited in heavy-ion collisions. Physical Review A, 2008, 78, .	2.5	12
21	$\langle \text{K} \hat{I}_{\pm} \rangle$ satellite Precise measurement of $\langle \text{K} \hat{I}_{\pm} \rangle$ excited in heavy-ion collisions. Physical Review A, 2009, 79, .	2.5	12
22	$M_{4\gamma}$ transition in ^{119}Sn : Extended test of internal-conversion theory.	2.9	12
23	P_{h} Decay of the double $\langle \text{K} \hat{I}_{\pm} \rangle$ state in silver atoms created in the decay of Cd^{109} . Physical Review A, 1985, 31, 1543-1550.	2.5	11
24	K-shell ionization of intermediate-Z elements by 30-MeV/amu H, N, Ne, and Ar ions. Physical Review A, 1992, 46, 2572-2580.	2.5	11
25	Cross-talk between two planar germanium detectors in head-on geometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 245, 467-480.	1.6	10
26	Multiple ionization of He, Ne, and Ar by high velocity N^{7+} ions. Nuclear Instruments & Methods in Physics Research B, 1991, 56-57, 15-17.	1.4	10
27	Precise measurement of branching ratios in the \hat{I}_{\pm}^2 decay of Ca^{38} . Physical Review C, 2015, 92, .	2.9	9
28	Spectra of L α rays from fast highly charged Xe ions traveling in solids. Physical Review A, 1995, 51, 363-373.	2.5	8
29	Projectile Z dependence of AlK-shell vacancy production in 10-MeV/amu ion-solid collisions. Physical Review A, 2000, 62, .	2.5	8
30	Ionization cross-sections for ion-atom collisions in high-energy ion beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 544, 91-97.	1.6	8
31	e-shape analysis for high-precision nuclear beta decay half-life measurements: Tested on ^{26}Al  m m 26 Nuclear Instru	1.6	8
32	Hypersatellite and satellite transitions in xenon atoms. Physical Review A, 1990, 42, 3984-3990.	2.5	7
33	Target-atom inner-shell vacancy distributions created in collisions with heavy ion projectiles. Nuclear Instruments & Methods in Physics Research B, 2000, 170, 336-346.	1.4	7
34	Target-atom K-shell ionization by binary-encounter electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 777-786.	1.5	7
35	Effects of multiple ionization on the spectra of L α rays excited in heavy-ion collisions. Physical Review A, 2008, 77, .	2.5	6
36	Precise measurement of $\langle \text{K} \hat{I}_{\pm} \rangle$ and $\langle \text{L} \hat{I}_{\pm} \rangle$ for the 39.8-keV E3 transition in Rh^{103} : Test of internal-conversion theory. Physical Review C, 2018, 98, .	2.9	6

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37	Lx rays emitted from multiply ionized holmium atoms. Physical Review A, 2005, 71, .	2.5	5
38	Time-interval analysis of beta decay. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 713, 19-26.	1.6	5
39	Precise branching ratio measurement for the superallowed \hat{I}^2+ decay of Si26 : Completion of a second mirror pair. Physical Review C, 2019, 100, .	2.9	5
40	Molecular imaging with fast beams. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 90-93.	1.4	4
41	Precise half-life measurement of the superallowed emitter S30. Physical Review C, 2018, 97, .	2.9	4
42	The dependence of the escape of characteristic X-rays from planar germanium detectors on the direction of the incident radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1984, 228, 210-214.	1.6	3
43	Projectile energy dependence of L x-ray emission from fast, highly charged Xe ions traveling in solids. Physical Review A, 1997, 56, 1904-1912.	2.5	3
44	New precise half-life measurement for the superallowed \hat{I}^2+ emitter Ar34. Physical Review C, 2020, 101, .	2.9	3
45	Projectile-energy dependence of H-like Ar Lyman- \hat{I}^{\pm} emission in solids. Physical Review A, 1997, 55, 1988-1993.	2.5	2
46	Projectile charge dependence of cross-sections for multiple electron capture and loss by 2 MeV/u Xe ions in nitrogen. Nuclear Instruments & Methods in Physics Research B, 2003, 211, 495-504.	1.4	2
47	3D momentum imaging of molecular dissociation induced by fast, heavy-ion collisions in the strong interaction regime. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2584-2592.	1.4	2
48	K-shell internal conversion coefficient for M4 decay of the 30.8 keV isomer in Nb93. Physical Review C, 2020, 102, .	2.9	2
49	Precise $\langle \text{mml:math} \rangle$ branching-ratio measurement for the $\langle \text{mml:math} \rangle$ superallowed decay of $\langle \text{mml:math} \rangle$		
50	$\langle \text{mml:math} \rangle$ K- plus L-shell ionization of fourth row elements by 30 MeV/amu Ar ions. Nuclear Instruments & Methods in Physics Research B, 1991, 56-57, 61-62.	1.4	1
51	L- and M-electron populations of fast xenon ions traveling in gases. Physical Review A, 1998, 57, 3635-3640.	2.5	1
52	Projectile and target Z-scaling of target K-vacancy production cross sections at 10 MeV/amu. AIP Conference Proceedings, 2001, , .	0.4	1
53	Transverse momentum of ionized atoms and diatomic molecules acquired in collisions with fast highly charged heavy ions. Physical Review A, 2013, 88, .	2.5	1
54	Testing CVC and CKM Unitarity via superallowed nuclear beta decay. EPJ Web of Conferences, 2015, 93, 01001.	0.3	1

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55	Sum-fit method of analysis of nuclear decay spectra affected by extending dead-time. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 868, 53-58.	1.6	1
56	Ionization of noble gas atoms by alpha particles and fission fragments from the decay of ^{252}Cf . International Journal of Mass Spectrometry and Ion Processes, 1993, 126, 37-44.	1.8	0
57	Probability of dissociation and main dissociative pathways of co molecular ions produced in collisions with 97 MeV Ar^{14+} projectiles. Radiation Effects and Defects in Solids, 1993, 126, 25-28.	1.2	0
58	Xenon recoil-ion charge distributions produced in electron capture and loss collisions of 8 MeV/u Kr. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1994, 32, 61-66.	1.0	0
59	Target and Projectile K-vacancy Production by Fast Heavy Ions in the Molecular Orbital Regime. AIP Conference Proceedings, 2003, , .	0.4	0
60	Projectile Ionization in Collisions of U^{28+} and Xe^{18+} with Gases. AIP Conference Proceedings, 2003, , .	0.4	0
61	FT values measured to $\hat{\Delta}\pm 0.1\%$ for superallowed beta transitions: Metrology at sub-second time scales. Applied Radiation and Isotopes, 2014, 87, 297-301.	1.5	0
62	The \hat{I}^2 Decay of ^{38}Ca : Sensitive Test of Isospin Symmetry-Breaking Corrections from Mirror Superallowed $0^+ \hat{\rightarrow} 0^+$ Transitions. , 2015, , .		0
63	DOUBLE X-RAY DECAY. Journal De Physique Colloque, 1987, 48, C9-613-C9-616.	0.2	0
64	HYPERSATELLITE AND SATELLITE ENERGY SHIFTS AND INTENSITY RATIOS. Journal De Physique Colloque, 1987, 48, C9-629-C9-631.	0.2	0