

Vladimir Horvat

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	K-shell internal conversion coefficient for M4 decay of the 30.8 keV isomer in Nb93. Physical Review C, 2020, 102, .	2.9	2
2	New precise half-life measurement for the superallowed \hat{I}^2+ emitter Ar34. Physical Review C, 2020, 101, .	2.9	3
3	Precise $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ branching-ratio measurement for the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \frac{2}{3} \langle \text{mml:mo} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ superallowed decay of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Ar} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle$	2.9	2
4	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
5	Precise half-life measurement of the superallowed emitter S30. Physical Review C, 2018, 97, .	2.9	4
6	Precise measurement of $\hat{I}^{\pm}K$ and $\hat{I}^{\pm}T$ for the 39.8-keV E3 transition in Rh103 : Test of internal-conversion theory. Physical Review C, 2018, 98, .	2.9	6
7	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
8	Precise measurement of branching ratios in the \hat{I}^2 decay of Ca38. Physical Review C, 2015, 92, .	2.9	9
9	Testing CVC and CKM Unitarity via superallowed nuclear beta decay. EPJ Web of Conferences, 2015, 93, 01001.	0.3	1
10	The \hat{I}^2 Decay of 38Ca: Sensitive Test of Isospin Symmetry-Breaking Corrections from Mirror Superaligned $0+ \hat{\alpha}^1 0+$ Transitions. , 2015, , .		0
11	\hat{I}^2 Decay of Ca38: Sensitive test of Isospin Symmetry-Breaking Corrections from Mirror Superaligned $0+ \hat{\alpha}^1 0+$ Transitions. Physical Review Letters, 2014, 112, 102502.	7.8	25
12	Precise measurement of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \hat{I}^{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle K \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ the 65.7-keV $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle M \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle 4$ transition in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 119 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle \text{Sn}$: Extended test of internal-conversion theory.	2.9	12
13	D_{th} FT values measured to $\hat{A} \pm 0.1\%$ for superallowed beta transitions: Metrology at sub-second time scales. Applied Radiation and Isotopes, 2014, 87, 297-301.	1.5	0
14	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
15	Precision nuclear beta decay half-life measurements: Tested on $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ altimg="si0026.gif" overflow="scroll"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Al} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle m \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle 26 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 713, 19-26.	1.6	8
16	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
17	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
18	Precise half-life measurement of the superallowed \hat{I}^2+ emitter 38Ca. Physical Review C, 2011, 84, .	2.9	20

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19	Precision half-life measurement of the superallowed ${}^{26}\text{Al}$ β^+ decay. Physical Review Letters, 2009, 102, 122501. $\frac{1}{\tau} = \lambda_{\beta^+} + \lambda_{\text{EC}}$	2.9	21
20	Production of K α x-ray satellite and hypersatellite distributions of Ar excited in heavy-ion collisions. Physical Review A, 2009, 79, .	2.5	12
21	Effects of multiple ionization on the spectra of L α rays excited in heavy-ion collisions. Physical Review A, 2008, 77, .	2.5	6
22	K α x-ray satellite and hypersatellite spectra of vanadium metal and oxides excited in heavy-ion collisions. Physical Review A, 2008, 78, .	2.5	12
23	Target K-vacancy production by 2.5 to 25 MeV/u Ar, Kr, and Xe ions. Physical Review A, 2006, 74, .	2.5	12
24	Systematics of K α x-ray satellite structure. Physical Review A, 2006, 74, .	2.5	13
25	Cross sections for charge change in argon and equilibrium charge states of 3.5 MeV/u uranium ions passing through argon and carbon targets. Nuclear Instruments & Methods in Physics Research B, 2005, 227, 251-260.	1.4	37
26	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
27	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
28	L α rays emitted from multiply ionized holmium atoms. Physical Review A, 2005, 71, .	2.5	5
29	Projectile electron loss and capture in MeV/u collisions of U $^{28+}$ with H $_2$, N $_2$ and Ar. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 4539-4550.	1.5	57
30	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
31	Target Z dependence and additivity of cross sections for electron loss by 6-MeV/u Xe $^{18+}$ projectiles. Physical Review A, 2003, 67, .	2.5	53
32	Target and Projectile K-vacancy Production by Fast Heavy Ions in the Molecular Orbital Regime. AIP Conference Proceedings, 2003, .	0.4	0
33	Projectile Ionization in Collisions of U $^{28+}$ and Xe $^{18+}$ with Gases. AIP Conference Proceedings, 2003, .	0.4	0
34	Projectile and target ionization in MeV/u collisions of Xe ions with N $_2$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 1893-1907.	1.5	48
35	Multiple electron stripping of heavy ion beams. Laser and Particle Beams, 2002, 20, 551-554.	1.0	19
36	Projectile and target Z-scaling of target K-vacancy production cross sections at 10 MeV/u. AIP Conference Proceedings, 2001, .	0.4	1

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37	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
38	Multiple electron stripping of 3.4 MeV/amu Kr ⁷⁺ and Xe ¹¹⁺ in nitrogen. Physics of Plasmas, 2001, 8, 1753-1756.	1.9	47
39	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
40	Projectile Z dependence of Al K-shell vacancy production in 10-MeV/amu ion-solid collisions. Physical Review A, 2000, 62, .	2.5	8
41	Projectile Z dependence of Cu K-shell vacancy production in 10-MeV/amu ion-solid collisions. Physical Review A, 1999, 60, 2959-2969.	2.5	27
42	L- and M-electron populations of fast xenon ions traveling in gases. Physical Review A, 1998, 57, 3635-3640.	2.5	1
43	Projectile-energy dependence of H-like Ar Lyman- α emission in solids. Physical Review A, 1997, 55, 1988-1993.	2.5	2
44	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
45	Kinetic-energy release in the dissociative capture-ionization of CO molecules by 97-MeV Ar ¹⁴⁺ ions. Physical Review A, 1996, 53, 1187-1190.	2.5	18
46	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
47	Spectra of Lx rays from fast highly charged Xe ions traveling in solids. Physical Review A, 1995, 51, 363-373.	2.5	8
48	Molecular imaging with fast beams. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 90-93.	1.4	4
49	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
50	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
51	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
52	Two-photon decay in silver and hafnium atoms. Physical Review A, 1992, 46, 132-141.	2.5	12
53	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
54	Dissociation of multicharged CO molecular ions produced in collisions with 97-MeV Ar ¹⁴⁺ : Dissociation fractions and branching ratios. Physical Review A, 1992, 46, 3929-3934.	2.5	28

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55	Dissociation of multicharged CO molecular ions produced in collisions with 97-MeV Ar ¹⁴⁺ : Total-kinetic-energy distributions. <i>Physical Review A</i> , 1992, 45, 2903-2914.	2.5	62
56	Multiple ionization of He, Ne, and Ar by high velocity N ⁷⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991, 56-57, 15-17.	1.4	10
57	K- plus L-shell ionization of fourth row elements by 30 MeV/amu Ar ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991, 56-57, 61-62.	1.4	1
58	Hypersatellite and satellite transitions in xenon atoms. <i>Physical Review A</i> , 1990, 42, 3984-3990.	2.5	7
59	DOUBLE X-RAY DECAY. <i>Journal De Physique Colloque</i> , 1987, 48, C9-613-C9-616.	0.2	0
60	HYPERSATELLITE AND SATELLITE ENERGY SHIFTS AND INTENSITY RATIOS. <i>Journal De Physique Colloque</i> , 1987, 48, C9-629-C9-631.	0.2	0
61	Cross-talk between two planar germanium detectors in head-on geometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986, 245, 467-480.	1.6	10
62	Double-Photon Decay in Xenon Atoms. <i>Physical Review Letters</i> , 1986, 56, 2469-2472.	7.8	22
63	Decay of the double K-shell-vacancy state in silver atoms created in the decay of Cd ¹⁰⁹ . <i>Physical Review A</i> , 1985, 31, 1543-1550.	2.5	11
64	The dependence of the escape of characteristic X-rays from planar germanium detectors on the direction of the incident radiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1984, 228, 210-214.	1.6	3