

Peter Sigmund

List of Publications by Year in descending order

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195
papers

13,747
citations

36271

51
h-index

20943

115
g-index

212
all docs

212
docs citations

212
times ranked

3301
citing authors

#	ARTICLE	IF	CITATIONS
1	Threshold behavior and isotope effect in low-energy electronic stopping of light ions. Journal of Applied Physics, 2021, 129, 185304.	1.1	2
2	The Bloch correction, key to heavy-ion stopping. Journal of Applied Physics, 2020, 128, .	1.1	6
3	Height and position of the Bragg peak in the stopping of charged particles. Journal of Applied Physics, 2020, 127, 164302.	1.1	1
4	Effect of impact-parameter-dependent electronic energy loss on reflected-ion spectra. Nuclear Instruments & Methods in Physics Research B, 2020, 467, 91-96.	0.6	6
5	Is electronic stopping of ions velocity-proportional in the velocity-proportional regime?. Nuclear Instruments & Methods in Physics Research B, 2019, 440, 41-47.	0.6	5
6	Six decades of atomic collisions in solids. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 391-412.	0.6	25
7	Systematics of heavy-ion charge-exchange straggling. Nuclear Instruments & Methods in Physics Research B, 2016, 384, 30-36.	0.6	3
8	Progress in understanding heavy-ion stopping. Nuclear Instruments & Methods in Physics Research B, 2016, 382, 15-25.	0.6	33
9	Velocity dependence of heavy-ion stopping below the maximum. Nuclear Instruments & Methods in Physics Research B, 2015, 342, 292-299.	0.6	7
10	Notes on Barkas-Andersen effect. European Physical Journal D, 2014, 68, 1.	0.6	10
11	Anatomy of charge-exchange straggling. Nuclear Instruments & Methods in Physics Research B, 2014, 338, 101-107.	0.6	5
12	Particle Penetration and Radiation Effects Volume 2. Springer Series in Solid-state Sciences, 2014, , .	0.3	76
13	Penetration of Molecules and Clusters. Springer Series in Solid-state Sciences, 2014, , 481-546.	0.3	1
14	Stopping. Springer Series in Solid-state Sciences, 2014, , 149-195.	0.3	1
15	Interatomic Potentials, Scattering and Nuclear Stopping. Springer Series in Solid-state Sciences, 2014, , 235-280.	0.3	0
16	Multiple Scattering. Springer Series in Solid-state Sciences, 2014, , 281-339.	0.3	0
17	Range and Energy Deposition. Springer Series in Solid-state Sciences, 2014, , 417-477.	0.3	0
18	Charge Exchange: Statistics and Energetics. Springer Series in Solid-state Sciences, 2014, , 97-146.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Straggling. Springer Series in Solid-state Sciences, 2014, , 197-231.	0.3	0
20	Stopping of Slow Ions. Springer Series in Solid-state Sciences, 2014, , 343-415.	0.3	2
21	Energy-loss straggling of 2×10 MeV/u Kr ions in gases. European Physical Journal D, 2013, 67, 1.	0.6	13
22	ICACS 25: An anniversary. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 6-8.	0.6	0
23	Polarization wake of penetrating ions: oscillator model. European Physical Journal D, 2012, 66, 1.	0.6	4
24	Recollections of fifty years with sputtering. Thin Solid Films, 2012, 520, 6031-6049.	0.8	44
25	Elements of Sputtering Theory. , 2012, , 1-40.		8
26	Stopping of swift hydrogen diclusters: oscillator model. European Physical Journal D, 2011, 61, 39-50.	0.6	10
27	Exploring reciprocity as a tool in low-energy electronic stopping. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 817-823.	0.6	7
28	Charge-exchange straggling in equilibrium. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 804-809.	0.6	13
29	Charge evolution of swift-heavy-ion beams explored by matrix method. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 813-816.	0.6	11
30	Impact-parameter-dependent electronic stopping of swift ions. European Physical Journal D, 2010, 56, 41-50.	0.6	12
31	Impact-parameter-dependent stopping of swift ions. European Physical Journal D, 2010, 56, 51-60.	0.6	6
32	Impact-parameter-dependent stopping of swift ions. European Physical Journal D, 2010, 58, 105-116.	0.6	18
33	Evaluation by citation: An imperfect system. Physics Today, 2009, 62, 10-11.	0.3	4
34	Antiproton and proton energy loss straggling at keV energies. European Physical Journal D, 2008, 46, 89-92.	0.6	15
35	Reciprocity in the electronic stopping of slow ions in matter. European Physical Journal D, 2008, 47, 45-54.	0.6	44
36	Stopping of slow ions. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 569-578.	0.1	12

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37	Stopping of ions based on semiclassical phase shifts. <i>Physical Review A</i> , 2007, 76, .	1.0	19
38	Energy-loss spectra of light relativistic ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 256, 50-56.	0.6	3
39	Electron ejection in collisions between swift heavy ions and atoms. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 258, 116-120.	0.6	2
40	Z2 structure and gasâ€“solid effect in the stopping of slow ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 263, 349-356.	0.6	6
41	Shell correction in stopping theory. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 243, 457-460.	0.6	7
42	Stopping of high-Z ions at intermediate velocities. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 245, 22-27.	0.6	15
43	Primary electron spectra from swift heavy-ion impact. <i>European Physical Journal D</i> , 2006, 39, 209-221.	0.6	9
44	Interplay of Classical and Quantum Mechanics in the Theory of Charged-Particle Stopping. <i>Advances in Quantum Chemistry</i> , 2005, 48, 91-110.	0.4	3
45	Valence structure effects in the stopping of swift ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 230, 1-6.	0.6	13
46	STOPPING OF IONS HEAVIER THAN HELIUM. <i>Journal of the ICRU</i> , 2005, 5, 0-0.	6.0	45
47	Stopping of swift ions in compounds. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 218, 19-28.	0.6	25
48	Barkas effect, shell correction, screening and correlation in collisional energy-loss straggling of an ion beam. <i>European Physical Journal D</i> , 2003, 23, 201-209.	0.6	30
49	Interplay of charge exchange and projectile excitation in the stopping of swift heavy ions. <i>European Physical Journal D</i> , 2003, 23, 211-215.	0.6	14
50	Material dependence of electronic stopping. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 209, 19-25.	0.6	17
51	Nuclear stopping in transmission experiments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 207, 240-256.	0.6	19
52	Anatomy of the Barkas effect. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 212, 110-117.	0.6	26
53	Bohr did not make an elementary blunder. <i>Radiation Effects and Defects in Solids</i> , 2003, 158, 551-552.	0.4	0
54	Binary theory of electronic stopping, a powerful update to Bohrâ€™s classic from 1913. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	1

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55	Binary theory of electronic stopping. Nuclear Instruments & Methods in Physics Research B, 2002, 195, 64-90.	0.6	174
56	Binary theory of light-ion stopping. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 49-55.	0.6	33
57	Statistics of heavy-ion stopping. Nuclear Instruments & Methods in Physics Research B, 2002, 195, 183-187.	0.6	5
58	Panel discussion on stopping of heavy ions. Nuclear Instruments & Methods in Physics Research B, 2002, 195, 224-231.	0.6	3
59	Stopping of heavy ions. Nuclear Instruments & Methods in Physics Research B, 2002, 195, 1-2.	0.6	7
60	Nonperturbative Theory of Charge-Dependent Heavy-Ion Stopping. Physica Scripta, 2001, T92, 222-224.	1.2	5
61	Binary theory of antiproton stopping. European Physical Journal D, 2001, 15, 165-172.	0.6	29
62	Effective charge and related/unrelated quantities in heavy-ion stopping. Nuclear Instruments & Methods in Physics Research B, 2001, 174, 535-540.	0.6	39
63	Resolution of the Frozen-Charge Paradox in Stopping of Channeled Heavy Ions. Physical Review Letters, 2001, 86, 1486-1489.	2.9	17
64	Electronic stopping of swift lithium and carbon ions. Nuclear Instruments & Methods in Physics Research B, 2000, 164-165, 212-219.	0.6	27
65	A general expression for the width of a charged-particle track. Nuclear Instruments & Methods in Physics Research B, 2000, 164-165, 401-407.	0.6	10
66	Pronounced composition gradients in alloys under low-energy ion implantation at high fluence. Nuclear Instruments & Methods in Physics Research B, 2000, 164-165, 453-459.	0.6	7
67	Polarization effect in stopping of swift partially screened heavy ions: Perturbative theory. Nuclear Instruments & Methods in Physics Research B, 2000, 164-165, 220-229.	0.6	23
68	Energy-loss spectra of charged particles in the presence of charge exchange: Addendum on spectra. Nuclear Instruments & Methods in Physics Research B, 2000, 170, 39-44.	0.6	8
69	Binary stopping theory for swift heavy ions. European Physical Journal D, 2000, 12, 425-434.	0.6	103
70	Shell correction in Bohr stopping theory. European Physical Journal D, 2000, 12, 111-116.	0.6	19
71	Electronic stopping of swift partially stripped molecules and clusters. Physical Review A, 2000, 61, .	1.0	30
72	Stopping power in perspective. Nuclear Instruments & Methods in Physics Research B, 1998, 135, 1-15.	0.6	86

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73	Energy loss and charge exchange: Statistics and atomistics. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 47-54.	0.6	20
74	Compositional changes in alloys during ion bombardment at elevated temperatures. Nuclear Instruments & Methods in Physics Research B, 1998, 140, 75-90.	0.6	10
75	Effect of composition gradients in alloys on differential sputter parameters. Nuclear Instruments & Methods in Physics Research B, 1998, 140, 61-69.	0.6	9
76	Fifteen Ways to Get Your Audience to Leave You. Physics Today, 1998, 51, 86-86.	0.3	0
77	Charge-dependent electronic stopping of swift nonrelativistic heavy ions. Physical Review A, 1997, 56, 3781-3793.	1.0	93
78	Energy-loss spectra of charged particles in the presence of charge exchange. Nuclear Instruments & Methods in Physics Research B, 1997, 125, 110-115.	0.6	12
79	Forces on swift ions near plane surfaces. Nuclear Instruments & Methods in Physics Research B, 1997, 125, 77-96.	0.6	13
80	Molecule and cluster bombardment: energy loss, trajectories, and collision cascades. Nuclear Instruments & Methods in Physics Research B, 1996, 112, 1-11.	0.6	60
81	Nonlinear transmission sputtering. Nuclear Instruments & Methods in Physics Research B, 1996, 112, 12-15.	0.6	3
82	Statistics of projectile states and correlated phenomena for penetrating ions. Nuclear Instruments & Methods in Physics Research B, 1996, 115, 111-124.	0.6	12
83	Analysis of the primary process in isotope sputtering. Nuclear Instruments & Methods in Physics Research B, 1996, 119, 359-374.	0.6	38
84	Ion-beam induced compositional changes in alloys at elevated temperatures. Nuclear Instruments & Methods in Physics Research B, 1996, 120, 221-225.	0.6	9
85	Low-speed limit of Bohr's stopping-power formula. Physical Review A, 1996, 54, 3113-3117.	1.0	51
86	Simulation of energy-dependent isotope sputtering. Nuclear Instruments & Methods in Physics Research B, 1995, 103, 383-386.	0.6	17
87	Momentum in atomic collision cascades. Nuclear Instruments & Methods in Physics Research B, 1995, 102, 86-92.	0.6	8
88	Note on stopping power and statistics of particle penetration. Nuclear Instruments & Methods in Physics Research B, 1995, 95, 477-479.	0.6	5
89	Exact solutions of balance equation governing ion-beam-induced composition changes and sputtering. Applied Physics Letters, 1995, 66, 433-435.	1.5	5
90	Charge-exchange and energy-loss statistics of swift penetrating ions. Laser and Particle Beams, 1995, 13, 281-292.	0.4	7

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91	Momentum in atomic collision cascades. , 1995, 102, 86-86.		5
92	Statistics of energy loss and charge exchange of penetrating particles: Higher moments and transients. Physical Review A, 1994, 49, 4709-4715.	1.0	36
93	Analysis of charge-dependent stopping of swift ions. Physical Review A, 1994, 50, 3197-3201.	1.0	30
94	Light-ion stopping near the maximum. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 541-550.	0.6	24
95	Scattering of swift diatomic molecular ions from planar surfaces at grazing incidence. Nuclear Instruments & Methods in Physics Research B, 1994, 88, 97-106.	0.6	7
96	Orientalional dependence of electronic stopping of molecule and cluster ions. Nuclear Instruments & Methods in Physics Research B, 1994, 88, 191-195.	0.6	9
97	Note on isotope sputtering. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 192-193.	0.6	6
98	Momentum asymmetry and the isotope puzzle in sputtering by ion bombardment. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 242-254.	0.6	17
99	Alloy sputtering at high fluence: preferential sputtering and competing effects. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 269-282.	0.6	26
100	Particle-Induced Electron Emission: Open Questions, Pitfalls, and a Few Attempts at Answers. NATO ASI Series Series B: Physics, 1993, , 59-78.	0.2	3
101	Scaling laws governing the multiple scattering of diatomic molecules under Coulomb explosion. Physical Review A, 1992, 46, 2596-2606.	1.0	11
102	Intercomparison of atomic models for computing stopping parameters from the Bethe theory: Atomic hydrogen. Physical Review A, 1992, 46, 7012-7018.	1.0	10
103	Pressure relaxation in atomic mixing and preferential sputtering. Journal of Applied Physics, 1992, 72, 1993-1995.	1.1	9
104	Statistical theory of charged-particle stopping and straggling in the presence of charge exchange. Nuclear Instruments & Methods in Physics Research B, 1992, 69, 113-122.	0.6	87
105	Scattering and stopping of swift diatomic molecules under coulomb explosion. Nuclear Instruments & Methods in Physics Research B, 1992, 67, 11-16.	0.6	15
106	Impact parameter dependence of light-ion electronic energy loss. Nuclear Instruments & Methods in Physics Research B, 1991, 61, 139-148.	0.6	33
107	Interaction of slow (100 eV/atom) copper clusters with thin gold films: reflection, transmission, and sputtering at normal and oblique incidence. Nuclear Instruments & Methods in Physics Research B, 1991, 62, 23-34.	0.6	20
108	Accelerated deuterons in cluster-fusion experiments. Physical Review A, 1991, 44, 7428-7438.	1.0	37

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109	The Z3I contribution to the stopping power of protons and antiprotons in silicon: Two theoretical predictions. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 8-9.	0.6	13
110	Stopping power and energy loss spectrum of a dense medium of bound electrons. Nuclear Instruments & Methods in Physics Research B, 1990, 48, 29-33.	0.6	18
111	Interaction of slow (100 ev/atom) carbon clusters with gold: Penetration properties and collision cascades. Nuclear Instruments & Methods in Physics Research B, 1990, 51, 344-353.	0.6	22
112	Penetration of slow gold clusters through silicon. Nuclear Instruments & Methods in Physics Research B, 1990, 47, 236-242.	0.6	86
113	Barkas effect in a dense medium: Stopping power and wake field. Annals of Physics, 1990, 201, 152-192.	1.0	78
114	COLLISION CASCADES AND SPUTTERING INDUCED BY LARGER CLUSTER IONS. Journal De Physique Colloque, 1989, 50, C2-175-C2-182.	0.2	13
115	Pronounced nonlinear behavior of atomic collision sequences induced by keV-energy heavy ions in solids and molecules. Physical Review A, 1989, 39, 3360-3372.	1.0	41
116	Barkas effect in electronic stopping power: Rigorous evaluation for the harmonic oscillator. Physical Review A, 1989, 40, 101-116.	1.0	100
117	Round Robin computer simulation of ejection probability in sputtering. Nuclear Instruments & Methods in Physics Research B, 1989, 36, 110-123.	0.6	84
118	Depth of origin and angular spectrum of sputtered atoms. Nuclear Instruments & Methods in Physics Research B, 1989, 36, 124-136.	0.6	77
119	Interplay between computer simulation and transport theory in the analysis of ion-beam-induced collision processes in solids. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 585-597.	0.9	25
120	Preferential recoil implantation in polyatomic targets. Nuclear Instruments & Methods in Physics Research B, 1988, 34, 15-21.	0.6	15
121	Inelastic background signal in x-ray photoelectron spectroscopy. Physical Review B, 1988, 38, 11140-11146.	1.1	6
122	Collision cascades as fractals. Physica Scripta, 1987, 36, 689-692.	1.2	31
123	Mechanisms and theory of physical sputtering by particle impact. Nuclear Instruments & Methods in Physics Research B, 1987, 27, 1-20.	0.6	258
124	Impact parameter dependence of electronic energy loss: Oscillator model. Nuclear Instruments & Methods in Physics Research B, 1987, 27, 266-275.	0.6	46
125	Magnitude and mechanism of collisional mixing. Nuclear Instruments & Methods in Physics Research B, 1987, 19-20, 85-91.	0.6	7
126	Elastic and inelastic scattering of electrons emitted from solids: effects on energy spectra and depth profiling in xps/aes. Surface and Interface Analysis, 1986, 9, 130-130.	0.8	2

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127	Preferential sputtering from isotopic mixtures and alloys of near-neighbor elements. Nuclear Instruments & Methods in Physics Research B, 1986, 18, 375-387.	0.6	33
128	A note on rotational and vibrational motion of sputtered or desorbed diatomic molecules. Nuclear Instruments & Methods in Physics Research B, 1986, 14, 495-499.	0.6	42
129	Bethe stopping theory for a harmonic oscillator and Bohr's oscillator model of atomic stopping. Physical Review A, 1986, 34, 892-910.	1.0	97
130	Recoil numbers, particle densities and reaction yields in linear atomic collision cascades. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1985, 52, 753-785.	0.7	18
131	Higher moments of the energy loss spectrum of swift charged particles penetrating a thin layer of material. Nuclear Instruments & Methods in Physics Research B, 1985, 6, 486-495.	0.6	17
132	Stopping power at intermediate velocities. Nuclear Instruments & Methods in Physics Research B, 1985, 10-11, 241-246.	0.6	4
133	Energy loss spectrum of swift charged particles penetrating a layer of material. Nuclear Instruments & Methods in Physics Research B, 1985, 12, 1-16.	0.6	98
134	On the proton stopping power maximum in gases and vapours. Nuclear Instruments & Methods in Physics Research B, 1985, 12, 80-83.	0.6	23
135	A Time-Dependent Analog of the Ritz Variational Principle in Nonrelativistic Quantum Mechanics. Physica Scripta, 1985, 32, 482-485.	1.2	1
136	Tracks of heavy ions in muscovite mica: Analysis of the rate of production of radiation defects. Physical Review B, 1985, 32, 5429-5431.	1.1	59
137	Temperature-dependent sputtering of metals and insulators. Applied Physics A: Solids and Surfaces, 1984, 33, 141-152.	1.4	86
138	A note on evaporation from heated spikes. Applied Physics A: Solids and Surfaces, 1984, 35, 19-25.	1.4	31
139	Mechanism of ion beam induced mixing of layered solids. Applied Physics A: Solids and Surfaces, 1983, 30, 43-46.	1.4	77
140	LSS and the Integral Equations of Transport Theory. Physica Scripta, 1983, 28, 257-267.	1.2	30
141	Predicted Z ² Structure and Gas-Solid Difference in Low-Velocity Stopping Power of Light Ions. Physical Review Letters, 1983, 51, 1332-1335.	2.9	33
142	Fourth International Workshop on Inelastic Ion-Surface Collisions. Physica Scripta, 1983, T6, 3-3.	1.2	1
143	Kinetic theory of particle stopping in a medium with internal motion. Physical Review A, 1982, 26, 2497-2517.	1.0	239
144	Energy loss straggling of a point charge penetrating a free-electron gas. Physical Review A, 1982, 25, 1450-1455.	1.0	23

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145	Influence of elastic and inelastic scattering on energy spectra of electrons emitted from solids. Physical Review B, 1982, 25, 4452-4466.	1.1	401
146	Sputtering of multicomponent materials: Elements of a theory. Nuclear Instruments & Methods in Physics Research, 1982, 194, 541-548.	0.9	212
147	Sputtering by ion bombardment theoretical concepts. Topics in Applied Physics, 1981, , 9-71.	0.4	379
148	Sputtering from elastic collision spikes in heavy ion bombarded metals. Journal of Applied Physics, 1981, 52, 990-993.	1.1	300
149	Stopping of slow recoil atoms in gases. Zeitschrift für Physik A, 1981, 301, 101-107.	1.4	7
150	Depth of origin of sputtered atoms. Applied Physics Berlin, 1981, 25, 307-310.	1.4	111
151	Distortion of depth profiles during ion bombardment II. Mixing mechanisms. Nuclear Instruments & Methods, 1981, 180, 211-219.	1.2	115
152	Theoretical aspects of atomic mixing by ion beams. Nuclear Instruments & Methods, 1981, 182-183, 25-41.	1.2	498
153	Generalised scaling law for electronically elastic ion-molecule collisions in the sudden approximation. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, L321-L323.	1.6	18
154	Electron Emission from Solids During Ion Bombardment. Theoretical Aspects. Springer Series in Chemical Physics, 1981, , 2-37.	0.2	23
155	Comment on the Energy Distribution of Excited Recoil Atoms. Springer Series in Chemical Physics, 1981, , 251-257.	0.2	2
156	Distortion of depth profiles during sputtering. Nuclear Instruments & Methods, 1980, 168, 389-394.	1.2	196
157	Sputtering of single and multiple component materials. Journal of Vacuum Science and Technology, 1980, 17, 396-399.	1.9	77
158	Recoil implantation and ion beam induced composition changes in alloys and compounds. Journal of Applied Physics, 1979, 50, 7261-7263.	1.1	103
159	Direct and recoil-induced electron emission from ion-bombarded solids. Physical Review B, 1979, 20, 2247-2254.	1.1	65
160	Small-angle multiple scattering of ions in the screened-coulomb region. III. Combined angular and lateral spread. Nuclear Instruments & Methods, 1978, 150, 221-231.	1.2	29
161	Scaling law for electronically elastic ion-molecule collisions in the sudden approximation. Journal of Physics B: Atomic and Molecular Physics, 1978, 11, L145-L148.	1.6	21
162	Scaling law for electronically elastic ion - molecule collisions in the sudden approximation. Journal of Physics B: Atomic and Molecular Physics, 1978, 11, 2779-2779.	1.6	0

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163	Comment on Biological Effect of Elastic Nuclear Collisions. Radiation Research, 1977, 71, 481.	0.7	0
164	Energy loss of charged particles to molecular gas targets. Physical Review A, 1976, 14, 996-1005.	1.0	52
165	Total backscattering of keV light ions from solid targets in single-collision approximation. Applied Physics Berlin, 1976, 11, 265-272.	1.4	58
166	Effect of molecular geometry on multiple scattering of heavy energetic particles. Nuclear Instruments & Methods, 1976, 134, 597-599.	1.2	15
167	Lateral distributions of multiply scattered ions: sensitivity to atomic interaction, Z1-oscillations, molecular effects, double-differential distributions, and implications for surface scattering. Nuclear Instruments & Methods, 1976, 132, 703-705.	1.2	6
168	Damage Clusters in Molecular-Ion-Bombarded Gold Observed by Transmission Electron Microscopy. Physical Review Letters, 1976, 36, 1148-1151.	2.9	19
169	Small-angle multiple scattering of ions in the screened Coulomb region. Nuclear Instruments & Methods, 1975, 126, 317-323.	1.2	135
170	Momentum deposition by heavy-ion bombardment and an application to sputtering. Journal Physics D: Applied Physics, 1975, 8, 241-245.	1.3	48
171	Inversion of total cross sections for repulsive ion-atom scattering in the classical regime. Physica, 1974, 71, 258-265.	0.9	5
172	Small-angle multiple scattering of ions in the screened Coulomb region. Nuclear Instruments & Methods, 1974, 119, 541-557.	1.2	498
173	Sputtering of chemisorbed gas (nitrogen on tungsten) by low-energy ions. Journal of Applied Physics, 1974, 45, 4760-4766.	1.1	314
174	Energy density and time constant of heavy-ion-induced elastic collision spikes in solids. Applied Physics Letters, 1974, 25, 169-171.	1.5	433
175	A mechanism of surface micro-roughening by ion bombardment. Journal of Materials Science, 1973, 8, 1545-1553.	1.7	515
176	Sputtering and backscattering of keV light ions bombarding random targets. Radiation Effects, 1973, 19, 7-14.	0.4	122
177	Deduction of Heavy-Ion X-Ray Production Cross Sections from Thick-Target Yields. Physical Review A, 1972, 6, 1257-1257.	1.0	2
178	Deduction of Heavy-Ion X-Ray Production Cross Sections from Thick-Target Yields. Physical Review A, 1972, 5, 1285-1289.	1.0	72
179	On the reflection coefficient of keV heavy-ion beams from solid targets. Radiation Effects, 1971, 11, 69-78.	0.4	126
180	Energy deposition and penetration depth of heavy ions in the electronic stopping region. Radiation Effects, 1971, 11, 39-49.	0.4	72

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181	Correlation functions in the theory of atomic collision cascades: Ion location and the distribution in depth and size of damage clusters. Radiation Effects, 1970, 6, 187-197.	0.4	67
182	Theory of Sputtering. I. Sputtering Yield of Amorphous and Polycrystalline Targets. Physical Review, 1969, 184, 383-416.	2.7	3,347
183	The Energy Dependence of Lattice Disorder in Ion-implanted Silicon. Physica Status Solidi (B): Basic Research, 1969, 35, 269-275.	0.7	22
184	ON THE NUMBER OF ATOMS DISPLACED BY IMPLANTED IONS OR ENERGETIC RECOIL ATOMS. Applied Physics Letters, 1969, 14, 114-117.	1.5	334
185	A note on integral equations of the kinchin-pease type. Radiation Effects, 1969, 1, 15-18.	0.4	150
186	Theory of Sputtering. I. Sputtering Yield of Amorphous and Polycrystalline Targets. Physical Review, 1969, 187, 768-768.	2.7	261
187	Sputtering efficiency of amorphous substances. Canadian Journal of Physics, 1968, 46, 731-737.	0.4	77
188	Possibility of anisotropic disordering of f. c. c. A3B alloys by irradiation with fast electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1967, 24, 104-105.	0.9	3
189	On the Mechanism of Sputtering. Physica Status Solidi (B): Basic Research, 1966, 16, 507-511.	0.7	141
190	Non-binary atomic collisions in crystals. Physics Letters, 1965, 15, 237-238.	2.2	6
191	Defect distributions in channeling experiments. Nuclear Instruments & Methods, 1965, 38, 238-240.	1.2	70
192	Effect of channelling on displacement cascade theory. Physics Letters, 1963, 6, 251-253.	2.2	18
193	Magnetismus des freien Elektronengases. European Physical Journal A, 1963, 171, 515-526.	1.0	0
194	Electronic Stopping of Point Charges. Springer Tracts in Modern Physics, 0, , 29-44.	0.1	0
195	Statistics of Particle Penetration. Springer Tracts in Modern Physics, 0, , 99-108.	0.1	1