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Effective stopping-power charges of swift ions in condensed matter

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512	Z2 stopping power oscillations as derived from range measurements. <b>1983</b> , 218, 817-820		16
511	THE STOPPING AND RANGE OF IONS IN SOLIDS. <b>1984</b> , 51-108		123
510	Stopping power and energy-loss stragglings of slow protons moving in carbon, aluminum and gold; effective-charge fractions and straggling of heavy ions. <b>1984</b> , 81, 221-229		10
509	Z2 dependence of the stopping power and the effective charge for MeV helium-ion beams. <i>Physical Review A</i> , <b>1984</b> , 30, 1714-1720	2.6	28
508	Charge-changing energy loss, higher-order Z1 dependence, and pre-equilibrium behavior in the stopping power for energetic ions in solids. <i>Physical Review A</i> , <b>1984</b> , 30, 1682-1691	2.6	41
507	Theoretical study of the stopping powers for pre-equilibrium heavy ion beams. <b>1984</b> , 100, 313-315		6
506	Experiments on the sputtering of group VI elements. <b>1984</b> , 1, 275-281		21
505	Application of brandtN effective charge theory to measurements for 50B50 keV ions with 1?Z1? 5. <b>1984</b> , 2, 119-122		3
504	Effective stopping power charge of ions in condensed matter. <b>1984</b> , 2, 123-129		2
503	Range and range straggling of 15 to 350 keV 69Ga in amorphous silicon. 1984, 85, 117-122		8
502	Projectile Dependence of KLl Vacancy Production Cross Sections of Al by H and He Ion Bombardments. <i>Journal of the Physical Society of Japan</i> , <b>1984</b> , 53, 2215-2218	1.5	1
501	Single and Double K-Shell Ionization Cross Sections of Beryllium by C, N, O and Ne Ion Bombardments. <i>Journal of the Physical Society of Japan</i> , <b>1984</b> , 53, 1001-1005	1.5	5
500	Electronic Stopping Power for Low Energy Ions. <b>1985</b> , 45, 71		14
499	Range profiles of implanted Bi and Au in amorphous silicon. <b>1985</b> , 6, 453-458		50
498	High energy ion implantation. <b>1985</b> , 6, 270-282		124

497	Wake effects in the stopping power of molecular ions. <b>1985</b> , 12, 62-66		16
496	Proton stopping cross sections for carbon, aluminium and gold: New experimental data and critical analysis of the validity of empirical fit formulas. <b>1985</b> , 12, 90-94		21
495	On the energy loss of heavy ions in amorphous materials. <b>1985</b> , 88, 159-215		28
494	Range Profiles of 10 to 380 keV 120Sn and 133Cs in amorphous silicon. <b>1985</b> , 90, 103-110		9
493	A Short Overview on Monte Carlo Simulations of Ion Beam Penetration into Amorphous Solids. <b>1986</b> , 94, 337-341		2
492	Thick-target Ti and Fe K X-ray production cross sections from D, He, C, N and O bombardment. <b>1986</b> , 19, 3287-3296		7
491	Effective charge of slow ions in solids. <b>1986</b> , 19, L81-L85		15
490	Projectile-ionization cross sections for H-like ions in collisions with N2, O2, Ne, and Ar targets.  Physical Review A, <b>1986</b> , 34, 1779-1786	6	9
489	K-shell ionization cross sections for Al, Ti, V, Cr, Fe, Ni, Cu, and Ag by protons and oxygen ions in the energy range 0.3-6.4 MeV. <i>Physical Review A</i> , <b>1986</b> , 34, 866-873	6	18
488	Energy loss of protons and helium ions passing through matter. <i>Physical Review A</i> , <b>1986</b> , 33, 1602-1611 2.	6	50
487	A theory of interaction between fast ions and solids. <b>1987</b> , 103, 157-185		3
486	Inelastic proton-solid collisions. <i>Physical Review B</i> , <b>1987</b> , 35, 8249-8251	3	23
485	Range profiles of helium in solids. <b>1987</b> , 104, 1-42		13
484	Impact Parameter Dependent Electronic Energy Losses. 1987, 142, 35-47		10
483	Monte Carlo Simulation of Channeled and Random Profiles of Heavy Ions Implanted in Silicon at High Energy (1.2 MeV). <b>1987</b> , 102, K13-K18		1
482	The momentum-loss achromat <b>(A)</b> new method for the isotopical separation of relativistic heavy ions. <b>1987</b> , 260, 287-303		107
481	Velocity dependence in low-velocity electronic stopping power of heavy ions. <b>1987</b> , 123, 307-310		9
480	Computer simulations of sputtering. <b>1987</b> , 27, 21-36		234

479	A four-moments analysis of 1H range profiles IN Si. <b>1987</b> , 29, 587-590	14
478	The electronic stopping and range profile calculations for high energy implantation of phosphorous into silicon. <b>1987</b> , 21, 8-13	12
477	Interaction of slow ions with bulk and surfaces. <b>1987</b> , 27, 256-265	33
476	The reaction 36(∰40Ar: £ransition properties of resonance and bound states in 40Ar. <b>1988</b> , 489, 225-236	8
475	Range and range profile calculations for MeV phosphorus implantation into silicon. 1988, 38, 991-993	2
474	Implanted boron profiles in silicon. <b>1988</b> , 34, 316-320	19
473	Range profiles of Ar implanted into C films. <b>1988</b> , 30, 13-15	8
472	Electronic stopping power for 7Li, 11B, 12C, 14N and 16O at energies 0.4 to 2.1 MeV/nucleon in Ta and Au, and for 12C at energies 0.4, 0.8 and 1.4 MeV/nucleon in 18 elemental solids. <b>1988</b> , 35, 1-6	27
471	Range profiles of medium and heavy ions implanted into SiO2. <b>1988</b> , 35, 17-20	30
470	The stopping of ions in compounds. <b>1988</b> , 35, 215-228	311
47º 469	The stopping of ions in compounds. 1988, 35, 215-228  Dynamic screening: Capture and loss processes of protons moving in solids. 1988, 33, 91-97	311
469	Dynamic screening: Capture and loss processes of protons moving in solids. <b>1988</b> , 33, 91-97	29
469 468	Dynamic screening: Capture and loss processes of protons moving in solids. <b>1988</b> , 33, 91-97  Range parameters of heavy ions implanted into C films. <b>1988</b> , 33, 122-124	29
469 468 467	Dynamic screening: Capture and loss processes of protons moving in solids. <b>1988</b> , 33, 91-97  Range parameters of heavy ions implanted into C films. <b>1988</b> , 33, 122-124  Stopping power of slow ions in metals and insulators. <b>1988</b> , 33, 138-141	29 23 29
469 468 467 466	Dynamic screening: Capture and loss processes of protons moving in solids. 1988, 33, 91-97  Range parameters of heavy ions implanted into C films. 1988, 33, 122-124  Stopping power of slow ions in metals and insulators. 1988, 33, 138-141  Stopping power of 100B00 keV F+, Ar+, As+, Br+ and Xe+ ions in silicon. 1988, 33, 142-146	29 23 29
469 468 467 466 465	Dynamic screening: Capture and loss processes of protons moving in solids. 1988, 33, 91-97  Range parameters of heavy ions implanted into C films. 1988, 33, 122-124  Stopping power of slow ions in metals and insulators. 1988, 33, 138-141  Stopping power of 100B00 keV F+, Ar+, As+, Br+ and Xe+ ions in silicon. 1988, 33, 142-146  Energy loss and straggling accompanied by charge exchange. 1988, 33, 151-154	29 23 29 7

461	Nonlinear calculations for the width of particle states. <i>Physical Review B</i> , <b>1988</b> , 38, 9191-9193	3.3	28
460	Z3 correction to the stopping power of ions in an electron gas. <i>Physical Review B</i> , <b>1988</b> , 37, 9268-9277	3.3	63
459	Range measurements and thermal stability study of AZ111 photoresist implanted with Bi ions. <b>1988</b> , 63, 2502-2506		13
458	Implanted boron depth profiles in the AZ111 photoresist. <b>1988</b> , 63, 2083-2085		26
457	Integral and differential alignment of atomic inner-shell vacancies in the semiclassical approximation. <b>1988</b> , 21, 963-980		7
456	Depth profiles of Li ions implanted in the photoresist AZ111. <b>1988</b> , 3, 1422-1426		16
455	THE STOPPING AND RANGE OF IONS IN SOLIDS. 1988, 3-61		39
454	Lithium implantation profiles in metals and semiconductors. <b>1989</b> , 108, 27-44		13
453	5 keV to 2 MeV lithium implantation and diffusion in amorphous silicon. <b>1989</b> , 108, 185-203		16
452	Secondary-electron yield as a probe of preequilibrium stopping power of heavy ions colliding with solids. <i>Physical Review A</i> , <b>1989</b> , 40, 3632-3636	2.6	46
45 <sup>2</sup>		2.6	3
		2.6	
451	solids. <i>Physical Review A</i> , <b>1989</b> , 40, 3632-3636	2.6	
45 <sup>1</sup> 45 <sup>0</sup>	solids. <i>Physical Review A</i> , <b>1989</b> , 40, 3632-3636  Charge state evolution and convoy electron production in ion solid interaction. <b>1989</b> , 110, 127-129  Depth profiles of implanted 18F, 79Br, and 132Xe in silicon in the energy range 85B00 keV. <b>1989</b> ,	2.6	3
451 450 449	solids. <i>Physical Review A</i> , <b>1989</b> , 40, 3632-3636  Charge state evolution and convoy electron production in ion solid interaction. <b>1989</b> , 110, 127-129  Depth profiles of implanted 18F, 79Br, and 132Xe in silicon in the energy range 85B00 keV. <b>1989</b> , 42, 1-6	2.6	9
451 450 449 448	Solids. <i>Physical Review A</i> , <b>1989</b> , 40, 3632-3636  Charge state evolution and convoy electron production in ion solid interaction. <b>1989</b> , 110, 127-129  Depth profiles of implanted 18F, 79Br, and 132Xe in silicon in the energy range 85B00 keV. <b>1989</b> , 42, 1-6  Electronic stopping power of Ta for Z = 11B8 atoms at energies 0D.8. <b>1989</b> , 36, 103-109	2.6	3 9 5
451 450 449 448 447	Charge state evolution and convoy electron production in ion solid interaction. 1989, 110, 127-129  Depth profiles of implanted 18F, 79Br, and 132Xe in silicon in the energy range 85B00 keV. 1989, 42, 1-6  Electronic stopping power of Ta for Z = 11B atoms at energies 0D.8. 1989, 36, 103-109  Stopping power of an electron gas for partially stripped ions. 1989, 42, 165-170	2.6	<ul><li>3</li><li>9</li><li>5</li><li>10</li></ul>

443	Electronic stopping powers derived from range measurements for ions at low velocity. <b>1989</b> , 39, 347-349	3
442	Effective Charge of Moving Ions in Matter. <b>1989</b> , 151, K105-K108	2
441	Charge States of Heavy Ions with Energy in the MeV Range in Crystalline Semiconductor Targets. <b>1989</b> , 157, 293	
440	Interaction of a moving atom with a metal. <b>1990</b> , 33, 625-628	
439	The stopping power of Ag and Au, with regard to higher-order Z1-effects. <b>1990</b> , 48, 79-82	12
438	Energy loss and straggling of heavy ions in matter. <b>1990</b> , 48, 83-86	5
437	PANDA-P, a new microcomputer program for ion transport in solids. <b>1990</b> , 48, 435-438	2
436	Comparison of ion range distributions obtained by different Monte Carlo codes with different electronic stopping powers. <b>1990</b> , 51, 11-16	4
435	Range parameters of heavy ions implanted into Be films. <b>1990</b> , 45, 689-692	22
434	Energy loss and straggling of low-velocity heavy atoms in matter. <i>Physical Review A</i> , <b>1990</b> , 41, 4889-48942.6	24
433	Stopping powers and energy loss of Mylar, Kapton, Havar, and Ni for 10 Z=3-17 ions in the energy range 0.2-2.1 MeV/amu. <i>Physical Review B</i> , <b>1990</b> , 41, 3951-3958	44
432	Stopping power for helium in aluminum. <b>1990</b> , 65, 1024-1027	98
431	Range and thermal-behavior studies of Au and Bi implanted into photoresist films. <i>Physical Review B</i> , <b>1990</b> , 41, 6145-6153	31
430	Stopping powers of 7Li, 11B, 12C, 14N, and 16O ions in C16H14O3 polycarbonate. <i>Physical Review B</i> , <b>1990</b> , 42, 3877-3880	24
429	Local electron concentration-dependent electronic stopping power model for Monte Carlo simulation of low-energy ion implantation in silicon. <b>1990</b> , 57, 2701-2703	42
428	Stopping power for low-velocity heavy ions: (0-1.0)-MeV/nucleon Mg ions in 17 (Z=22-79) elemental solids. <i>Physical Review B</i> , <b>1990</b> , 41, 6117-6123	19
427	Dynamic Screening of Ions in Condensed Matter. <b>1990</b> , 229-308	200
426	Projected ranges of energetic ions in solids. <b>1991</b> , 183, 202-215	2

425	Stopping power for low-velocity Mg ions in Si, Ge, and GaAs. <i>Physical Review B</i> , <b>1991</b> , 43, 13967-13970	3.3	11
424	The Unitary Semiclassical Theory of Coulomb Excitation of Atoms. <b>1991</b> , T37, 101-108		6
423	Electronic energy deposition mechanisms. <b>1991</b> , 19, 79-84		1
422	Range parameters of heavy ions implanted into boron films. <b>1991</b> , 59-60, 1-4		13
421	Stopping power of C and Al ions in solids. <b>1991</b> , 61, 385-393		20
420	Random and channeling stopping power of nitrogen in silicon in the 700🛮 500 keV range. <b>1991</b> , 53, 1-6		13
419	Range parameters study of medium-heavy ions implanted into light substrates. <b>1991</b> , 61, 282-290		58
418	Stopping power of carbon for helium. <b>1991</b> , 56-57, 352-354		6
417	Slowing down of heavy ions in solids near the stopping power maximum. <b>1991</b> , 56-57, 355-357		5
416	Electronic stopping power of Ti in C at Bohr velocities Lexperiment and theories. 1991, 340, 219-222		3
415	Effect of charge-state fluctuations of ions moving in solids on high-energy ion implantation. <b>1991</b> , 69, 155-161		3
414	Theory of the stopping power of fast multicharged ions. <i>Physical Review A</i> , <b>1991</b> , 44, 7355-7360	2.6	3
413	Excitation of Atomic Hydrogen and Helium by Proton and Multicharged Ions in Semiclassical Sudden-Born Approximation. <b>1991</b> , T37, 109-116		2
412	Electronic stopping power for slow atoms in solids. <i>Physical Review A</i> , <b>1991</b> , 44, 1768-1772	2.6	11
411	Stopping Power for Protons in Aluminum. <b>1992</b> , 19, 45-50		51
410	Electronic stopping power of Si and Ge for MeV-energy Si and P ions. <b>1992</b> , 60, 228-230		24
409	Electronic energy loss for helium channeling in silicon. <i>Physical Review A</i> , <b>1992</b> , 46, 5754-5760	2.6	12
408	Interaction of hydrogen Hn+ clusters with thin carbon foils. <i>Physical Review A</i> , <b>1992</b> , 45, 179-183	2.6	41

407	Computer Simulation of Atomic Collision Processes in Solids. <b>1992</b> , 279, 3	1
406	On the Experimental Investigation of Ion Beam Mixing in Thin Film Bilayers, Study of the Fe-Al Case. <b>1992</b> , 129, 453-465	8
405	Initial ion charge of a fission fragment. <b>1992</b> , 73, 666-672	
404	Stopping power of 16O, 48Ti and 108Ag ions in C and Al between 0.5 and 3. MeV/u. <b>1992</b> , 72, 293-301	16
403	Range parameters of deep ion implants in group IV semiconductors. <b>1992</b> , 62, 338-345	7
402	Cu, I and Au stopping powers in solid targets. <b>1992</b> , 72, 7-15	17
401	Range parameters study of Pb and Au implanted into SiC films. <b>1992</b> , 64, 668-671	17
400	Status of the calculation of the energy loss of swift ions in molecules. <b>1992</b> , 64, 678-683	17
399	Computer simulation of ion implantation into crystalline targets. <b>1992</b> , 64, 706-710	34
398	Dependence of proton and helium energy loss in solids upon plasma properties. <b>1992</b> , 69, 33-38	17
397	Dependence of electronic energy loss of light ions on the angle of emergence. <b>1992</b> , 69, 76-83	17
396	A charge state approach to the stopping power of ions in solids. <b>1992</b> , 69, 102-107	43
395	Charge state dependent energy loss of light ions. <b>1992</b> , 69, 108-112	11
394	The transport equation approach for the simulation of charge state fluctuation effects during ion penetration into solids. <b>1992</b> , 67, 30-34	14
393	The effective charge of He ions in metals. <b>1992</b> , 67, 138-141	2
392	. <b>1992</b> , 39, 264-274	19
391	. <b>1992</b> , 39, 1614-1621	63
390	Vicinage effects in the stopping power for diatomic molecular ions in solids. <b>1993</b> , 178, 209-216	11

389	12C, 15N and 16O stopping powers between 0.5 and 3.4 MeV in solid targets. <b>1993</b> , 73, 115-122	8
388	Energy loss and straggling of heavy ions in condensed matter. <b>1993</b> , 83, 303-310	14
387	Experimental evidence for 15N charge-change processes at a low energy regime. <b>1993</b> , 83, 1-4	8
386	Impact parameter dependence of electronic energy loss for heavy ions at low velocity. <b>1993</b> , 82, 513-517	3
385	The effect of high charge states on the stopping and ranges of ions in solids. <b>1993</b> , 80-81, 12-15	31
384	Numerical evaluation of the electronic stopping power for heavy ions in solids. <b>1993</b> , 80-81, 16-19	6
383	Energy loss and equilibrium charge distribution of nitrogen ions transmitted through thin silicon crystals. <b>1993</b> , 80-81, 33-36	6
382	Range parameters of Au and Cs implanted into BN and SiC films. <b>1993</b> , 80-81, 53-57	8
381	Atomic displacement due to the electrostatic potential energy of very highly charged ions at solid surfaces. <b>1993</b> , 294, 403-408	42
380	Theoretical calculations of energy transfer from noble gases to surfaces. <b>1993</b> , 74, 6007-6011	10
379	Electronic stopping power for heavy ions in hot targets. <i>Physical Review B</i> , <b>1993</b> , 47, 5597-5602 3.3	2
378	Binary-collision-cascade simulation of hyperchanneling of high-energy helium ions in silicon.  Physical Review B, <b>1993</b> , 47, 1256-1264	4
377	Stopping power of Mylar for low-velocity 11B, 12C, and 16O ions. <i>Physical Review B</i> , <b>1993</b> , 48, 6858-6861 <sub>3.3</sub>	13
376	Energy loss of moving ions in condensed matter. <b>1993</b> , T49B, 677-684	8
375	Atomic Transport by Ballistic Atomic Mixing Effect in Bilayer Structure. 1993, 316, 277	
374	Radiolytic effects in organic compounds induced and analyzed by a 15N beam. <b>1994</b> , 9, 1596-1603	4
373	Energy loss of swift metastable projectiles with two bound electrons. <b>1994</b> , 27, 97-109	9
372	Z 1 - and Z 2 -oscillations of electronic stopping cross sections obtained by shell-wise calculation and harmonic-oscillator model. <b>1994</b> , 3, 81-91	

371	Phase effect in the energy loss of hydrogen projectiles in zinc targets. <i>Physical Review B</i> , <b>1994</b> , 49, 6470	- <u>6.4</u> 80	23
370	Energy loss of swift projectiles with n (n . <i>Physical Review A</i> , <b>1994</b> , 49, 2681-2689	2.6	15
369	Partial stopping power and straggling effective charges of heavy ions in condensed matter. <i>Physical Review A</i> , <b>1994</b> , 49, 1089-1095	2.6	16
368	Analysis of charge-dependent stopping of swift ions. <i>Physical Review A</i> , <b>1994</b> , 50, 3197-3201	2.6	28
367	Basic physics of radiation damage production. <b>1994</b> , 216, 1-28		194
366	Modeling of the impurity distribution obtained by ion implantation. <b>1994</b> , 37, 410-422		
365	Effects of high-energy ion implantation into metals. <b>1994</b> , 37, 423-436		
364	Range parameters of Er, Ga and F implanted into SiC films. <b>1994</b> , 85, 579-583		5
363	Observation of defects on insulator surfaces following bombardment with slow Kr35+, Xe44+, Th74+, and U70+ ions. <b>1994</b> , 87, 156-161		12
362	Atomic transport in collisional atomic mixing in bilayer structure. <b>1994</b> , 88, 387-393		10
361	Screening effects in the impact parameter dependence of electronic energy loss offast ions in collisions with atoms. <b>1994</b> , 93, 227-233		5
360	Impact-parameter dependence of the electronic energy loss and angle-dependent energy loss for ions traversing thin foils. <b>1994</b> , 90, 41-44		10
359	Electronic energy loss of heavy ions colliding with atoms obtained from the harmonic oscillator model and from the shell-wise model. <b>1994</b> , 90, 88-91		8
358	Charge states and energy loss of ions in solids. <b>1994</b> , 93, 195-202		11
357	Binary collision simulations of ion transmission through silicon single crystal films. <b>1994</b> , null, 175-186		
356	The interatomic interaction potentials in radiation physics. <b>1995</b> , 149, 453-513		7
355	Ranges in Si and lighter mono and multi-element targets. <b>1995</b> , 15, 1-83		44
354	Dynamic charge states and energy deposition of swift helium ions in neon. <b>1995</b> , 96, 633-638		7

353	Stopping power for low-velocity heavy ions: $(0.01-0.9)$ MeV/nucleon Si ions in 18 (Z = 13 $\overline{0}$ 9) metals. <b>1995</b> , 101, 321-326		20
352	Dynamic Monte Carlo simulation for ion beam mixing. <b>1995</b> , 102, 136-140		
351	Low energy ion implantation simulation using a modified binary collision approximation code. <b>1995</b> , 102, 228-231		5
350	Electronic stopping of heavy ions in the Kaneko model. <i>Physical Review B</i> , <b>1995</b> , 51, 15798-15807	3.3	4
349	Dependence of Electron Mobility on Doped Impurities. <b>1995</b> , 34, 4827-4833		
348	The interaction of large fast carbon clusters with plasma. <b>1995</b> , 13, 335-341		7
347	Effective-charge theory for the electronic stopping of heavy ions in solids: Stripping criteria and target-electron models. <i>Physical Review B</i> , <b>1995</b> , 51, 107-116	3.3	22
346	Thomas - Fermi-type dielectric screening of statistical atomic models of donor-specific impurities in a semiconductor-like valence electron gas at zero temperature. <b>1996</b> , 8, 5585-5602		2
345	An Electronic Stopping Power Model in Single-Crystal Silicon from a Few KeV to Several MeV. <b>1996</b> , 438, 113		
344	An Electronic Stopping Power Model in Single-Crystal Silicon from a Few KeV to Several MeV. <b>1996</b> , 439, 107		
343	Stopping power measurements of 1H, 4He and 14N in Si in the energy range of 0.02d MeV/amu. <b>1996</b> , 118, 11-18		31
342	Range parameters study of medium-heavy ions implanted into GaAs. <b>1996</b> , 111, 12-16		1
341	Ion excitation in binary collisions. <b>1996</b> , 115, 340-344		5
340	Electron emission yield of Al, Cu and Au targets induced by fast hydrogen and helium ions. <b>1996</b> , 117, 350-356		10
339	Energy losses of ions implanted in matter. <b>1996</b> , 11, 2876-2883		9
338	Phenomenological electronic stopping-power model for molecular dynamics and Monte Carlo simulation of ion implantation into silicon. <i>Physical Review B</i> , <b>1996</b> , 54, 17147-17157	3.3	36
337	Energy loss of ions moving near a solid surface. <i>Physical Review A</i> , <b>1996</b> , 54, 636-640	2.6	16
336	Energy loss of H+ and He+ in Al, Zn, and Au in the very low- to intermediate-energy range. <i>Physical Review A</i> , <b>1996</b> , 54, 3131-3138	2.6	47

335	Effective charge in heavy ion stopping in classical collisionless plasmas. <b>1996</b> , 3, 3885-3889		13
334	Electronic stopping power for swift excited He-like ions with bound electrons in the1snlstate (n= 2,3 andl= 0,1). <b>1997</b> , 30, 1747-1764		4
333	Electronic energy-loss straggling of protons in an electron gas. <b>1997</b> , 9, 6837-6844		1
332	Charge-dependent electronic stopping of swift nonrelativistic heavy ions. <i>Physical Review A</i> , <b>1997</b> , 56, 3781-3793	2.6	84
331	Electronic energy loss of helium ions in aluminum. <i>Physical Review A</i> , <b>1997</b> , 55, 2083-2086	2.6	11
330	Bethe theory of stopping incorporating electronic excitations of partially stripped projectiles. <i>Physical Review A</i> , <b>1997</b> , 55, 2864-2872	2.6	38
329	An electronic stopping power model for Monte Carlo and molecular dynamics simulation of ion implantation into silicon.		1
328	Nonlinear calculations of the stopping power for slow hydrogen and helium projectiles in solids. <i>Physical Review A</i> , <b>1997</b> , 56, 4795-4798	2.6	14
327	Effective charge and electronic energy loss of heavy ions from a modelof an ion embedded in jellium. <i>Physical Review B</i> , <b>1997</b> , 55, 6188-6191	3.3	2
326	The incident angle effect on radiation damage and sputtering for low energy Ar+ ion bombardment. <b>1997</b> , 142, 369-383		2
325	Energy Deposition of Swift Alphas in Neon: An Electron Nuclear Dynamics Study. <b>1997</b> , 28, 107-118		3
324	Chapter 2 Electronic Stopping Power for Energetic Ions in Solids. <b>1997</b> , 45, 31-54		O
323	Charge exchange effects in production high energy implanter dosimetry.		0
322	Multiple ionization of atoms and molecules in collisions with fast ions: Ion-atom collisions. <i>Physical Review A</i> , <b>1997</b> , 56, 2848-2854	2.6	47
321	Range parameter study of Au and Bi implanted into carbon nitride films. 1997, 122, 8-12		
320	Charge-state distribution in close collisions of 3 MeV C2+ ions with Ag and Au atoms. <b>1997</b> , 122, 181-180	6	3
319	The Brandt-Kitagawa heavy ion model: Embedding in the homogeneous electron gas. <b>1997</b> , 132, 18-28		2
318	Montecarlo simulation of ion implantation into SiC-6H single crystal including channeling effect. <b>1997</b> , 46, 218-222		19

317	Effect of the initial charge and charge-state fluctuations on the range parameters of high-energy ions. <b>1998</b> , 86, 270-275	2
316	Electronic stopping powers of Au, Ag, Cu, Pd and Co metals for 19F ions at low velocity. <b>1998</b> , 135, 113-117	4
315	Effects of ion-nucleus sizes on the electronic stopping power for heavy ions in solids. <b>1998</b> , 135, 124-127	3
314	Electronic energy loss and effective charge of heavy ions in different targets. <b>1998</b> , 135, 138-142	
313	RBS/ERD simulation problems: Stopping powers, nuclear reactions and detector resolution. <b>1998</b> , 136-138, 141-146	50
312	Energy loss and charge exchange: Statistics and atomistics. <b>1998</b> , 136-138, 47-54	18
311	Energy loss of Ni ions transmitted through C foils at MeV energies: a charge state approach. <b>1998</b> , 146, 101-105	3
310	Universal fit formula for electronic stopping of all ions in carbon and silicon. <b>1998</b> , 146, 106-113	41
309	Effective stopping-power charges of swift heavy ions in gases. <b>1998</b> , 146, 88-94	10
308	Energy loss and straggling of H and He ions of keV energies in Si and C. <b>1998</b> , 136-138, 159-165	82
307	Nonlinear effects in stopping of partially ionized swift heavy ions. <b>1998</b> , 415, 687-692	13
306	Efficient molecular dynamics scheme for the calculation of dopant profiles due to ion implantation. <b>1998</b> , 57, 7278-7287	53
305	Simulation of Phosphorus Implantation into Silicon with a Single Parameter Electronic Stopping Power Model. <b>1998</b> , 09, 459-470	18
304	Energy loss of slow single-centre projectiles in electron gas. <b>1999</b> , 32, 1419-1427	3
303	Stochastic treatment of charge states for ion stopping in solids. <i>Physical Review B</i> , <b>1999</b> , 60, 14478-1448 <b>9</b> .3	12
302	Charge and velocity dependence of the ratio of double to single ionization of HIby Arq+ and Xeq+. <i>Physical Review A</i> , <b>1999</b> , 59, 4379-4384	3
301	Electronic stopping power for Monte Carlo simulation of ion implantation into SiC. <b>1999</b> , 147, 68-73	4
300	Influence of initial charge and charge state fluctuations on high-energy ion ranges and track formation. <b>1999</b> , 148, 159-163	4

299	Energy-loss of swift boron and carbon clusters in solids. <b>1999</b> , 153, 15-20	11
298	An efficient molecular dynamics scheme for predicting dopant implant profiles in semiconductors. <b>1999</b> , 153, 391-397	11
297	Electronic stopping of protons for lithium in the dielectric formulation obtained from first-principles calculations. <b>1999</b> , 155, 249-271	12
296	Charge state dependence of the energy loss of slow nitrogen ions reflected from an aluminum surface under grazing incidence. <b>1999</b> , 157, 87-91	19
295	Energy loss of swift oxygen molecular ions traversing amorphous carbon foils. <b>2000</b> , 275, 73-79	4
294	Implanted dopant and associated damage profile in MeV 166Er+ implanted silicon. 2000, 264, 459-464	1
293	Visualization of the ion projected range region in GaAs irradiated with argon ions. 2000, 26, 75-76	2
292	Tunneling limit in the theory of photoelectron rescattering by the parent ion. <b>2000</b> , 90, 778-787	18
291	Charge equilibration of He ions in the Si channel. <b>2000</b> , 161-163, 96-100	3
<b>2</b> 90	Slowing down of relativistic few-electron heavy ions. <b>2000</b> , 164-165, 168-179	65
289	Electronic stopping of silicon from a 3D charge distribution. <b>2000</b> , 164-165, 302-309	6
288	Stopping of molecules and clusters. <b>2000</b> , 164-165, 108-138	117
287	Impact-parameter dependent energy loss of screened ions. <b>2000</b> , 164-165, 203-211	47
286	Charge-state dependence of stopping power for light ions penetrating thin carbon foils at low velocity. <b>2000</b> , 164-165, 272-278	1
285	Charge equilibration of energetic He ions in the Si<100> channel. <b>2000</b> , 168, 321-328	4
284	Polarization effect in stopping of swift partially screened heavy ions: Perturbative theory. <b>2000</b> , 164-165, 220-229	20
283	Stopping of slow H- to Be-like ions in an electron gas. <b>2000</b> , 170, 28-34	3
282	Energy loss straggling of fast heavy ions with account of the spatial correlation effect. <b>2000</b> , 33, 709-715	1

281	Molecular structure effects in the energy loss of swift boron molecular ions in solids. <b>2000</b> , 12, 5519-55	26	10
<b>2</b> 80	Coulomb explosion patterns of fast C60 clusters in solids. <b>2000</b> , 85, 1448-51		35
279	Electronic stopping of swift partially stripped molecules and clusters. <i>Physical Review A</i> , <b>2000</b> , 61,	2.6	28
278	Drastic enhancement of energy-loss straggling of relativistic heavy ions due to charge-state fluctuations. <b>2000</b> , 85, 2725-8		23
277	Stopping cross section in the low- to intermediate-energy range: Study of proton and hydrogen atom collisions with atomic N, O, and F. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	29
276	Vicinage effect on the charge state of fast clusters in solids. <i>Physical Review A</i> , <b>2000</b> , 61,	2.6	20
275	Electronic stopping of Si from a three-dimensional charge distribution. <i>Physical Review B</i> , <b>2000</b> , 62, 310	933116	5 27
274	Energy loss of heavy ions specularly reflected from surfaces under glancing-angle incidence. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	26
273	Electronic stopping calculated using explicit phase shift factors. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	23
272	The effective stopping of relativistic structural heavy ions colliding with atoms. <b>2001</b> , 27, 999-1002		
271	Range parameters of implanted into Si and SiO2. <b>2001</b> , 175-177, 46-50		3
270	Algorithm for statistical noise reduction in three-dimensional ion implant simulations. <b>2001</b> , 174, 433-4.	38	3
269	Effective charge and related/unrelated quantities in heavy-ion stopping. 2001, 174, 535-540		38
268	An empirical approach to the stopping power of solids and gases for ions from 3Li to 18Ar. <b>2001</b> , 179, 299-315		87
267	Vicinage effects in the charge state of swift molecular constituents traversing thin foils. <b>2001</b> , 54, 729-7	735	15
266	Ion-charge distribution in fast, partially stripped clusters passing thin foils. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	10
265	Electronic stopping powers of solids for slow atoms. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	1
264	Transient charge-state effect in the energy loss of swift molecular ions in solids. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	6

263	Stopping power of fast, partially stripped molecules and clusters: Vicinage effects in charge states. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	18
262	Theory of average charge and energy loss of cluster ions in foils. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	25
261	Improved binary collision approximation ion implant simulators. 2002, 91, 658-667		36
<b>26</b> 0	Simulation of the interaction of high-energy C60 cluster ions with amorphous targets. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	14
259	Quantum mechanical model of electronic stopping power for ions in a free electron gas. 2002,		
258	Interaction of ions and ion clusters with a disordered electron gas: collective and single-particle excitations. <b>2002</b> , 66, 046415		8
257	Electronic stopping powers for fluorine ions in 19F+-implanted tin-oxide films prepared by APCVD. <b>2002</b> , 187, 431-436		3
256	Binary theory of electronic stopping. <b>2002</b> , 195, 64-90		153
255	Spatial and energy distributions of the fragments resulting from the dissociation of swift molecular ions in solids. <b>2002</b> , 190, 131-135		1
254	Accurate determination of the stopping power of in Si using Bayesian inference. 2002, 194, 15-25		32
253	Energy loss of ions in solids: Non-linear calculations for slow and swift ions. <b>2002</b> , 195, 91-105		65
252	Influence of wake-potential asymmetry on charge states and Coulomb explosion of fast molecular ions in solids. <b>2002</b> , 193, 204-208		8
251	Spatial distribution of ion charges in fast, partially stripped clusters traversing solid targets. <b>2002</b> , 193, 221-226		1
250	Measurement and uncertainties of energy loss in silicon over a wide Z1 range using time of flight detector telescopes. <b>2002</b> , 195, 133-146		4
249	Evaluation of the energy deposition profile for swift heavy ions in dense plasmas. <b>2002</b> , 195, 188-215		11
248	Electronic stopping powers of molybdenum metal for 19F ions at low velocity. <b>2002</b> , 197, 17-21		
247	Modeling of bombardment-induced diffusion and segregation during the self-sputtering of Ga+ions at SiO2/Si interfaces. <b>2002</b> , 158-159, 281-287		3
246	Enhanced modelization of ion implant simulation in compound semiconductors. <b>2002</b> , 46, 1315-1324		1

228

Physical Review A, 2003, 67,

Ionization loss of relativistic structural heavy ions in collisions with atoms. 2002, 94, 217-221 245 Effective stopping of relativistic composite heavy ions colliding with atoms. 2002, 47, 523-528 244 Single and double ionization cross sections of atoms colliding with relativistic structural heavy ions. 243 2002, 28, 497-500 Segregation of gallium at SiO2/Si interfaces during sputtering with Ga+ ions: experimental and 242 7 computer simulation study. 2002, 187, 145-153 Small angle multiple scattering of fast ions, physics, stochastic theory and numerical calculations. 60 241 2003. 201. 325-388 Energy loss of high energy ion beams in a disordered plasma. 2003, 205, 281-284 240 Stopping of swift ions under channeling condition: Influence of the projectile electronic structure 239 on the effective charge. 2003, 209, 246-251 Impact parameter dependent stopping power for highly charged ions. 2003, 205, 808-812 238 Explicit phase shift factor stopping model for multi-component targets. 2003, 212, 118-122 7 237 Energy loss effective charge for slow ions in electron gas. 2003, 70, 359-364 236 IonBolid interactions. 2003, 35, 743-752 6 235 Cross sections of inelastic processes in collisions between relativistic structured heavy ions and 234 atoms. 2003, 96, 34-39 K-shell ionization of a quasirelativistic hydrogenlike atom upon collision with a relativistic structural 233 multiply charged ion. 2003, 29, 760-763 Inverse problem in the stopping theory of fast multiply charged ions. 2003, 48, 1238-1242 232 Kinetic electron emission induced by grazing scattering of heavy ions from metal surfaces. Physical 2.6 231 5 Review A, 2003, 68, Stochastic treatment of nonequilibrium ion stopping in solids. Physical Review A, 2003, 67, 2.6 230 Predictive Monte Carlo ion implantation simulator from sub-keV to above 10 MeV. 2003, 93, 5893-5904 229 29

Feedback action of vicinage effect in cluster stopping via nonhomogeneous charge reduction.

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2.6

227	Explanation of the observed trend in the mean excitation energy of a target as determined using several projectiles. <i>Physical Review A</i> , <b>2003</b> , 68,	10
226	Interactions of fast C20clusters with solids: Coulomb explosions, charge states and energy losses. <b>2004</b> , 16, 1231-1244	5
225	Effective charge and the mean charge of swift ions in solids. <i>Physical Review A</i> , <b>2004</b> , 69, 2.6	21
224	Coulomb-explosion imaging of CH2+: Target-polarization effects and bond-angle distribution.  Physical Review A, <b>2004</b> , 69,  2.6	17
223	Electronic stopping cross sections in silicon carbide for low-velocity ions with 1?Z1?15. <b>2004</b> , 96, 164-169	11
222	Influence of strong laser fields on Coulomb explosions energy losses of correlated-ion clusters in plasmas. <b>2004</b> , 11, 1187-1193	7
221	Simulation of heavy ion induced electron yield at grazing incidence. <b>2004</b> , 7,	3
220	The Barkas-Effect Correction to Bethe <b>B</b> loch Stopping Power. <b>2004</b> , 46, 91-119	8
219	Non-Linear Approach to the Energy Loss of Ions in Solids. <b>2004</b> , 47-77	22
218	A study of the charge state approach to the stopping power of MeV B, N and O ions in carbon. <b>2004</b> , 222, 11-18	2
217	SRIM-2003. <b>2004</b> , 219-220, 1027-1036	1140
216	Electronic stopping powers for fluorine ions in 19F+-implanted silver gallium diselenide. <b>2004</b> , 222, 311-315	
215	Pressure effects on the stopping and range of heavy ions. <b>2004</b> , 222, 411-420	6
214	Electronic stopping powers for fluorine ions in 19F+-implanted AgGaS2 crystal. <b>2004</b> , 106, 105-110	5
213	Stopping of 236 keV B.019 MeV protons in mylar and polypropylene films. <b>2004</b> , 225, 449-463	12
212	Molecular dynamics simulation of ion implantation into hafnium dioxide. <b>2004</b> , 226, 537-542	6
211	Electronic stopping powers for fluorine ions in -implanted potassium titanyl arsenate. <b>2004</b> , 228, 77-83	1
<b>2</b> 10	Simulation of implantation into HfO/sub 2/ by MD method.	

209	Molecular Stopping Powers from the Target Oscillator Strength Distribution. 2004, 46, 121-151	5
208	Dynamical Processes in Stopping Cross Sections. <b>2004</b> , 45, 99-124	5
207	Nonlinear, Band-Structure, and Surface Effects in the Interaction of Charged Particles with Solids. <b>2004</b> , 247-275	
206	Advances in the Core-and-Bond Formalism for Proton Stopping in Molecular Targets. <b>2004</b> , 46, 195-239	7
205	Interplay of Classical and Quantum Mechanics in the Theory of Charged-Particle Stopping. <b>2005</b> , 48, 91-110	3
204	Theoretical study of pressure effects on fission fragment track registration lengths in apatite. <b>2005</b> , 40, 765-769	4
203	Energy loss of H+ and He+ in the semiconductors GaAs, ZnSe, InP and SiC. 2005, 230, 118-124	25
202	Stopping Power <b>W</b> hat Next?. <b>2005</b> , 49, 299-319	3
201	Coulomb explosion and energy loss of fast C60 clusters in plasmas. <b>2005</b> , 12, 042702	7
200	Atomic Collisions in Matter. <b>2005</b> , 486-505	
199	Vicinage effects in energy loss and electron emission during grazing scattering of heavy molecular ions from a solid surface. <i>Physical Review A</i> , <b>2005</b> , 72,	11
198	Calculated energy loss of swift He, Li, B, and N ions in SiO2, Al2O3, and ZrO2. <i>Physical Review A</i> , <b>2005</b> , 72,	82
197	REFERENCES. <b>2005</b> , 5, 239-253	
196	Effective stopping of fast heavy highly charged structure ions in collisions with complex atoms. <b>2006</b> , 84, 243-248	2
195	Stopping of high-Z ions at intermediate velocities. <b>2006</b> , 245, 22-27	12
194	Alignment dependence of the stopping effective charge of swift excited ions in the degenerate electron gas. <b>2006</b> , 245, 28-31	
193	A comparison of recent stopping power tables for light and medium-heavy ions with experimental data, and applications to radiotherapy dosimetry. <b>2006</b> , 247, 166-172	36
192	Allotropic effects on the energy loss of swift H+ and He+ ion beams through thin foils. <b>2006</b> , 249, 6-12	28

191	Irradiation by swift heavy ions: Influence of the non-equilibrium projectile charge state for near surface experiments. <b>2006</b> , 250, 263-268		25
190	Computer simulations of surface analysis using ion beams. <b>2006</b> , 81, 247-335		14
189	Electronic energy loss of swift H+ and He+ ions in solids with material science applications. <b>2006</b> , 249, 29-33		20
188	Extension of the Brandtkitagawa model for Hartreellock electronic densities. 2006, 249, 38-42		
187	Electronic stopping powers for heavy ions in niobium and tantalum pentoxides. <b>2006</b> , 250, 62-65		10
186	Molecular dynamics with phase-shift-based electronic stopping for calibration of ion implantation profiles in crystalline silicon. <b>2006</b> , 504, 121-125		4
185	Primary electron spectra from swift heavy-ion impact. <b>2006</b> , 39, 209-221		9
184	Influence of Incident Velocity on the Penetration for C 20 Clusters Moving through Oxides. <b>2006</b> , 23, 2741-2744		1
183	New Partition Factor Calculations for Evaluating the Damage of Low Energy Ions in Silicon. <b>2006</b> , 53, 3667-3674		26
182	Range and etching behaviour of swift heavy ions in polymers. <b>2007</b> , 162, 333-339		6
181	Impact-parameter-dependent multifragmentation of C60 in charge-changing collisions with 2-MeV C+ ions. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	4
180	Energy-loss calculation of swift Cn+ (n=2日0) clusters through thin foils. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	18
179	Calculation of energy-loss straggling of C, Al, Si, and Cu for fast H, He, and Li ions. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	22
178	Simulation of swift boron clusters traversing amorphous carbon foils. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	3
177	Reduction of the energy loss of swift molecular ions in solids due to vicinage effects in the charge state. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	8
176	Water fragmentation and energy loss by carbon ions at the distal region of the Bragg peak. <b>2007</b> , 99, 213201		37
175	Calculation of the energy loss of swift H and He ions in Ag using the dielectric formalism: The role of inner-shell ionization. <b>2007</b> , 256, 172-176		7
174	Dynamics of fast molecular ions in solids and plasmas: A review of recent theoretical developments. <b>2007</b> , 256, 57-65		7

173	Stopping power calculations of molecules for swift projectiles. <b>2007</b> , 76, 631-635	8
172	Theory of the stopping of fast heavy highly charged structured ions in their collisions with complex atoms. <b>2007</b> , 105, 502-510	5
171	Energy losses of fast heavy multiply charged structural ions in collisions with complex atoms. <b>2007</b> , 52, 839-844	5
170	Partitioning to elastic and inelastic processes of the energy deposited by low energy ions in silicon detectors. <b>2007</b> , 260, 529-536	6
169	A model of nuclear recoil scintillation efficiency in noble liquids. <b>2008</b> , 30, 12-17	53
168	New stopping power formula for intermediate energy electrons. <b>2008</b> , 66, 1886-90	23
167	Stopping of 0.3d.2MeV/u protons and alpha particles in Si. <b>2008</b> , 266, 3899-3905	6
166	Multiple ionization of C60 by fast Siq+ ions. <i>Physical Review A</i> , <b>2008</b> , 78,	2
165	Coulomb explosion as a probe to understand the mechanism of electron stripping from ions interacting with crystalline solids. <i>Physical Review B</i> , <b>2009</b> , 79,	3
164	How good is damped molecular dynamics as a method to simulate radiation damage in metals?. <b>2009</b> , 11, 013004	35
163	Calculated energy loss of a swift fullerene ion beam in InP. <b>2009</b> , 267, 872-875	1
162	Reliability of stopping power tables and codes for heavy ions (8 区 D2) in gases. <b>2009</b> , 83, 1099-1107	1
161	Interaction of slow ions with matter. <b>2009</b> , 36, 521-543	5
160	Influence of velocity difference of correlated particles on the stopping power and vicinage effect. <b>2009</b> , 267, 3175-3178	1
159	Efficient parallel algorithm for statistical ion track simulations in crystalline materials. 2009, 180, 231-237	2
158	Front-end process modeling in silicon. <b>2009</b> , 72, 323-359	27
157	Experimental and theoretical studies of the energy-loss straggling of H and He ion beams in HfO2 films. <b>2009</b> , 54, 65-70	9
156	Energy loss of proton, particle, and electron beams in hafnium dioxide films. <i>Physical Review A</i> , 2.6 2.6	22

155	Ab initio construction of interatomic potentials for uranium dioxide across all interatomic distances. <i>Physical Review B</i> , <b>2009</b> , 80,	16
154	A dielectric response study of the electronic stopping power of liquid water for energetic protons and a new I-value for water. <b>2009</b> , 54, 3451-72	60
153	Experimental and theoretical determination of the stopping power of ZrO2 films for protons and particles. <b>2010</b> , 59, 209-213	9
152	Ion and electron irradiation-induced effects in nanostructured materials. 2010, 107, 071301	759
151	Microstructure evolution of irradiated tungsten: Crystal effects in He and H implantation as modelled in the Binary Collision Approximation. <b>2010</b> , 403, 89-100	34
150	Effect of the Bethe surface description on the electronic excitations induced by energetic proton beams in liquid water and DNA. <b>2010</b> , 268, 1763-1767	24
149	SRIM The stopping and range of ions in matter (2010). <b>2010</b> , 268, 1818-1823	4874
148	Validation of recent Geant4 physics models for application in carbon ion therapy. <b>2010</b> , 268, 2343-2354	49
147	A predictive model for the electronic stopping force for molecular dynamic simulation (I). <b>2010</b> , 268, 3287-3290	4
146	Heavy ion range anisotropy in muscovite mica. <b>2010</b> , 268, 2617-2625	11
145	Energy loss of protons in carbon nanotubes: Experiments and calculations. <b>2010</b> , 268, 1781-1785	8
144	Cascade-driven mixing at metal oxide interfaces. <b>2010</b> , 268, 3114-3116	3
143	Simulation of ion-track ranges in uranium oxide. <b>2010</b> , 268, 2688-2693	7
142	Space charge limited current (SCLC) as observed on diamond surface damaged by MeV ion implantation. <b>2010</b> , 16, 012004	2
141	Energy loss and electron and x-ray emission of slow highly charged Arq+ ions in grazing incidence on an Al(111) surface. <i>Physical Review A</i> , <b>2010</b> , 81,	10
140	Impact of time and space evolution of ion tracks in nonvolatile memory cells approaching nanoscale. <b>2010</b> , 108, 124907	6
139	The treatment of electronic excitations in atomistic models of radiation damage in metals. <b>2010</b> , 73, 116501	91
138	Rutherford backscattering oscillation in scanning helium-ion microscopy. <b>2011</b> , 109, 064311	7

137	Energy loss of hydrogen- and helium-ion beams in DNA: calculations based on a realistic energy-loss function of the target. <b>2011</b> , 175, 247-55		51
136	A combined molecular dynamics and Monte Carlo simulation of the spatial distribution of energy deposition by proton beams in liquid water. <b>2011</b> , 56, 6475-93		36
135	Inelastic scattering of electron and light ion beams in organic polymers. <b>2011</b> , 109, 094901		40
134	Electronic stopping power of hydrogen in KCl at the stopping maximum and at very low energies. <b>2011</b> , 269, 2063-2066		6
133	Stopping of swift hydrogen diclusters: oscillator model. <b>2011</b> , 61, 39-50		10
132	Energy-loss straggling study of proton and alpha-particle beams incident onto ZrO2 and Al2O2 films. <b>2011</b> , 64, 297-301		7
131	Stopping power measurements of heavy ions (3?Z1?14) in Mylar foil by time-of-flight spectrometry. <b>2011</b> , 269, 386-391		13
130	Effects of Ion Species on SEB Failure Voltage of Power DMOSFET. <b>2011</b> , 58, 2991-2997		27
129	Influence of a strong laser field on Coulomb explosion and stopping power of energetic H3+clusters in plasmas. <b>2012</b> , 19, 093116		2
128	Inelastic energy loss of medium energy H and He ions in Au and Pt: Deviations from velocity proportionality. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	21
127	Depth profiling of residual activity of U237 fragments as a range verification technique for U238 primary ion beam. <b>2012</b> , 15,		3
126	Influence of a strong laser field on the Coulomb explosion and the stopping power of fast C60 clusters in plasmas. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	5
125	Molecular dynamics simulations of ion range profiles for heavy ions in light targets. <b>2012</b> , 286, 45-50		8
124	Electronic stopping cross sections for protons in Al2O3: an experimental and theoretical study. <b>2012</b> , 66, 1		3
123	Role of the interaction processes in the depth-dose distribution of proton beams in liquid water. <b>2012</b> , 373, 012015		7
122	Fragmentation and energy loss in grazing scattering of copper clusters Cun from a single-crystal Al(111) surface. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	1
121	Polarization wake of penetrating ions: oscillator model. <b>2012</b> , 66, 1		3
120	Polypropylene compositional evolution under 3.5 MeV He+ ion irradiation. <b>2012</b> , 278, 88-92		1

119	Deuteron induced secondary electron emission from titanium deuteride surface. <b>2012</b> , 280, 1-4	7
118	Complex dielectric function formalism for description of the electron kinetics in swift heavy ion tracks in LiF and Y2O3. <b>2013</b> , 315, 85-89	9
117	Energy loss straggling in collisions of fast finite-size ions with atoms. <b>2013</b> , 116, 389-394	2
116	Heavy ion charge-state distribution effects on energy loss in plasmas. <b>2013</b> , 88, 043107	7
115	The stopping of heavy ions in the low-to-intermediate energy range: The apparent velocity threshold. <b>2013</b> , 316, 245-248	7
114	Inelastic Collisions of Energetic Protons in Biological Media. <b>2013</b> , 65, 129-164	18
113	Electronic stopping power of slow 20Ne ions in Au obtained from TOF-MEIS and Monte-Carlo computer simulations. <b>2013</b> , 315, 26-29	6
112	Analysis of Mo/Si multilayers by means of RBS. <b>2013</b> , 317, 126-129	5
111	A new screening length for small angle multiple scattering. <b>2013</b> , 311, 14-19	2
110	Barkas effect in the stopping power for ions with different ionization degrees. <b>2013</b> , 316, 88-93	3
109	Angular and lateral distributions from small angle multiple scattering including elastic and inelastic energy loss effects based on the Valdes and Arista model. <b>2013</b> , 316, 222-231	
108	Semi-empirical model for stopping cross sections of p, Hand Li ions. <b>2013</b> , 67, 1	1
107	Exploring the Barkas effect with keV-electron scattering. <i>Physical Review A</i> , <b>2013</b> , 88, 2.6	9
106	Energy deposition of H and He ion beams in hydroxyapatite films: a study with implications for ion-beam cancer therapy. <b>2014</b> , 89, 022703	8
105	Electronic stopping power of hydrogen in HfO2 at the stopping maximum and below. <b>2014</b> , 320, 100-103	13
104	Recent radiation damage studies and developments of the Marlowe code. <b>2014</b> , 169, 592-602	13
103	Charge exchange and energy loss of slow highly charged ions in 1 nm thick carbon nanomembranes. <b>2014</b> , 112, 153201	51
102	A study of the energy deposition profile of proton beams in materials of hadron therapeutic interest. <b>2014</b> , 83 Pt B, 109-14	9

## (2016-2015)

101	Tracking subsurface ion radiation damage with metal®xide®emiconductor device encapsulation. <b>2015</b> , 30, 1413-1421		8
100	Kinetic-energy transfer in highly-charged-ion collisions with carbon. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	1
99	Calibration of BAS-TR image plate response to high energy (3-300 MeV) carbon ions. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 123302	1.7	22
98	The stopping power of heavy ions for energies below 0.2 MeV/nucleon measured by the semi-thick target method. <b>2015</b> , 774, 82-88		
97	Time-resolved electron kinetics in swift heavy ion irradiated solids. <b>2015</b> , 48, 355303		41
96	Scintillation efficiency for low energy nuclear recoils in liquid xenon dark matter detectors. <b>2015</b> , 61, 56-61		8
95	Energy Loss Function of Solids Assessed by Ion Beam Energy-Loss Measurements: Practical Application to Ta2O5. <b>2015</b> , 119, 20561-20570		4
94	Radiation re-solution of fission gas in non-oxide nuclear fuel. <b>2015</b> , 457, 273-278		5
93	Electronic stopping power calculation for water under the Lindhard formalism for application in proton computed tomography. <b>2016</b> ,		
92	Analytical model for ion stopping power and range in the therapeutic energy interval for beams of hydrogen and heavier ions. <b>2016</b> , 61, 6570-84		9
91	Electronic stopping for protons and particles from first-principles electron dynamics: The case of silicon carbide. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	27
90	Electronic stopping power in liquid water for protons and <del>[p</del> articles from first principles. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	27
89	Charge-state-dependent energy loss of slow ions. II. Statistical atom model. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	12
88	Cross sections for ionization of tetrahydrofuran by protons at energies between 300 and 3000 keV. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	7
87	Calculations on charge state and energy loss of argon ions in partially and fully ionized carbon plasmas. <b>2016</b> , 93, 033204		9
86	Traceable stopping cross sections of Al and Mo elemental targets for 0.9B.6-MeV protons. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	5
85	Ion energy losses during the charge-exchange process. <b>2016</b> , 10, 417-420		3
84	ION IRRADIATION OF ETHANE AND WATER MIXTURE ICE AT 15 K: IMPLICATIONS FOR THE SOLAR SYSTEM AND THE ISM. <b>2016</b> , 824, 81		12

83	Progress in understanding heavy-ion stopping. <b>2016</b> , 382, 15-25	23
82	Nonlinear curve fitting to stopping power data using RBF neural networks. <b>2016</b> , 45, 161-171	22
81	Electronic Excitation Dynamics in Liquid Water under Proton Irradiation. 2017, 7, 40379	15
80	Instantaneous charge state of uranium projectiles in fully ionized plasmas from energy loss experiments. <b>2017</b> , 24, 042703	7
79	Propagation of Swift Protons in Liquid Water and Generation of Secondary Electrons in Biomaterials. <b>2017</b> , 61-98	1
78	Electronic energy-loss mechanisms for H, He, and Ne in TiN. <i>Physical Review A</i> , <b>2017</b> , 96, 2.6	11
77	Stopping power of dense plasmas: The collisional method and limitations of the dielectric formalism. <b>2018</b> , 97, 023202	11
76	Tracking ion irradiation effects using buried interface devices. <b>2018</b> , 422, 47-49	1
75	Shell Correction in Stopping Power for Protons with Different Ionization Degrees in Al 2 O 3 and ZrO 2. <b>2018</b> , 454, 012019	
74	Penetration of gases by fission fragments@omparison between selected models and the data. <b>2018</b> , 911, 15-18	2
73	A Variational Solution of the Schrdinger Equation in an Inhomogeneous Central Field. 2018, 173, 03022	2
<del>7</del> 2	Nonlinear electronic stopping power of channeled slow light ions in ZnSe: Evidence of energy loss caused by formation and breaking of chemical bond. <b>2018</b> , 426, 41-45	4
71	Energy Spectra of Protons and Generated Secondary Electrons around the Bragg Peak in Materials of Interest in Proton Therapy. <b>2018</b> , 190, 282-297	8
70	Stopping power and energy loss straggling data of Bismuth thin film for (0.9B.0) MeV 4He+ swift ions. <b>2019</b> , 459, 15-21	
69	Measurements of 252Cf fission product energy loss through thin silicon nitride and carbon foils, and comparison with SRIM-2013 and MCNP6.2 simulations. <b>2019</b> , 456, 142-147	3
68	A semi-classical model for the charge exchange and energy loss of slow highly charged ions in ultrathin materials. <b>2019</b> , 4, 054401	4
67	On the Z-dependence of electronic stopping in TiN. <b>2019</b> , 9, 176	8
66	Energy Loss of Swift Heavy Ions: Fundamentals and Theoretical Formulations. <b>2019</b> , 393-412	Ο

65	Direct detection of primordial black hole relics as dark matter. <b>2019</b> , 2019, 046-046		21
64	Effect of resonant coherent excitation on the electronic stopping of slow channeled ions. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	2
63	Material dependence on the mean charge state of light ions in titanium, zirconium and copper. <b>2019</b> , 73, 1		
62	The Induced Electron Density Effects of Swift Heavy Ions in Polymethyl Methacrylate. <b>2019</b> , 49, 1-9		1
61	The effects of multicharged ion irradiation on a polycarbonate surface. <b>2019</b> , 174, 205-213		3
60	Search for direct detection of thorium-229m nuclear VUV photons. <b>2020</b> , 53, 015002		1
59	Nuclear versus electronic energy loss in slow Ar ion scattering on a Cu (100) surface: Experiment and simulations. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	3
58	The Bloch correction, key to heavy-ion stopping. <b>2020</b> , 128, 100903		1
57	Calculations of electronic excitation by protons and particles in silicon. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
56	Description of Ion Energy Straggling after Penetration through Thin Target. <b>2020</b> , 14, 241-244		
55	Conceptual design of a novel and compact superconducting recoil separator for radioactive isotopes. <b>2020</b> , 969, 164048		
54	Radiation driven diffusion in D-Mo. <b>2021</b> , 543, 152568		4
53	Unified Mechanics of Metals under High Electrical Current Density: Electromigration and Thermomigration. <b>2021</b> , 395-425		
52	Energy loss straggling data of 63Cu, 28Si, 27Al, 24Mg, 19F and 16O heavy ions crossing thin polymeric foils at low energy. <b>2021</b> , 491, 7-16		
51	Monte Carlo simulation of the passage of Frays and Fparticles in CsI. <b>2021</b> , 490, 25-33		О
50	Benchmark Experiment to Prove the Role of Projectile Excited States Upon the Ion Stopping in Plasmas. <b>2021</b> , 126, 115001		10
49	Self-Consistent Calculation of the Ground State of a Hydrogen-Like Carbon Atom in a Graphene Lattice. <b>2021</b> , 13, 286-292		1
48	Effective charge parameter for 7Li, 12C and 16O ions in aluminum, silver, gold, polypropylene and polycarbonate foils. <b>2021</b> , 182, 109352		

47	Effect of structure and orientation of incident carbon-cluster ions $Cn+(nB)$ on secondary-ion emission induced by electronic excitation. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	1
46	Velocity effect on the nanostructure creation at a solid surface by the impact of slow highly charged ions. <b>2021</b> , 190, 110301		1
45	Stopping power of fission fragments in thin Mylar and nickel foils. <b>2021</b> , 505, 1-16		2
44	Calculation of the ground state of an electron in an inhomogeneous field of a screened carbon ion. <b>2021</b> , 1-12		
43	PEROVSKITE-BASED COLOSSAL MAGNETORESISTANCE MATERIALS AND THEIR IRRADIATION STUDIES: A REVIEW. <b>2007</b> , 535-574		4
42	Impact Parameter Dependent Energy Loss for Heavy Ions: An Overview. <b>1991</b> , 347-363		2
41	Density Functional Theory of Stopping Power. <b>1991</b> , 39-71		11
40	Penetration of Molecules and Clusters. <b>2014</b> , 481-546		1
39	Ion-Solid Interaction. <b>2016</b> , 3-62		1
38	Mechanisms of Particle <b>B</b> olymer Interaction. <b>2004</b> , 119-169		5
37	Energy Loss of Swift Protons in Liquid Water: Role of Optical Data Input and Extension Algorithms. <b>2012</b> , 239-261		9
36	Rutherford Backscattering Angular Yields under Channeling Conditions for H+and H0Projectiles. <b>2002</b> , 101, 857-863		6
35	Stopping Power Calculations for Partially Stripped Projectiles in High Energy Region. <b>2005</b> , 107, 459-472		15
34	Nano- and microstructuring of solids by swift heavy ions. <b>2017</b> , 187, 465-504		5
33	Influence of atomic processes on charge states and fractions of fast heavy ions passing through gaseous, solid, and plasma targets. <b>2018</b> , 188, 267-300		2
32	Electronic Energy Loss of the Partially Stripped Boron-Like and Carbon-Like Fast Ions. 2003, 103, 349-363		
31	The Treatment of Electronic Excitations in Atomistic Simulations of Radiation Damage A Brief Review. <b>2011</b> , 15-66		1
30	Charge Equilibrium. <b>2014</b> , 3-43		

29	Stopping. <b>2014</b> , 149-195		
28	Ion-Beam Lithography. <b>1987</b> , 147-227		
27	Energy-loss phenomena. <b>1990</b> , 49-92		
26	A Stopping Power Formula for Helium Ions. <b>1991</b> , 563-568		
25	Questions Concerning the Stopping Power of Heavy Ions in Solids. <b>1991</b> , 365-369		
24	Effective Charge of Helium Ions in Solids. <b>1991</b> , 541-546		
23	Range parameters study of Au, Bi and Pb implanted into GaAs. <b>1996</b> , 686-689		
22	Electronic stopping powers of 80B50 keV 19F ions in Ta, Nb, Ti refractory metals and Ni0.8Fe0.2 alloy. <b>1996</b> , 671-674		
21	Transport of Charged Particles. <b>2017</b> , 141-193		
20	CONVERGENCIA DE LAS FRACCIONES DE CARGA DE LOS TOMOS LIVIANOS A LA CURVA UNIVERSAL DE IONIZACI <b>N</b> I. <b>2019</b> , 17-33		
19	Stopping Power and Partial Stopping Power Effective Charge in The Plasma. <b>2020</b> , 31, 45		
18	HHHH- HH <b>2020</b> , 32, 21-30		1
17	Stopping power of water for carbon ions with energies in the Bragg peak region. <b>2020</b> , 102, 062418		1
16	Calculation of the electronic conductivity of a flat carbon nanostructure based on the model of a hydrogen-like atom. <b>2020</b> , 1-20		
15	<b>2022</b> , 34, 32-40		
14	Resonant coherent excitation and energy loss of slow channeling helium ions in AlN. <i>Physical Review A</i> , <b>2022</b> , 105,	2.6	Ο
13	Incident Energy Dependence of the Molecular Orientation Effect of MeV (text $\{C\}_{2}^{+}\}$ ) Projectiles in Secondary-Ion Emission Processes. <i>Journal of the Physical Society of Japan</i> , <b>2022</b> , 91,	1.5	0
12	Calibration of BAS-TR image plate response to GeV gold ions <i>Review of Scientific Instruments</i> , <b>2022</b> , 93, 033304	1.7	1

11	Energy Deposition around Swift Carbon-Ion Tracks in Liquid Water. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 6121	6.3	1
10	Contribution of f -electron excitation to electronic stopping power of platinum for protons. <i>Physical Review B</i> , <b>2022</b> , 106,	3.3	
9	Empirical formula and computer code for the range of charged particles with $\$Z = 2{-}103\$$ and $\$E = 2.5{-}500\$$ AMeV in aluminum. <i>Journal of the Korean Physical Society</i> ,	0.6	
8	Stopping Force Analysis of 235U Elemental Fission Product Yields for E = 0.11\(\mathbb{D}\)2.4 MeV. <b>2022</b> , 184, 1-28	3	O
7	Coulomb Interactions in the Model of an Isolated Atom with a Screened Ion. 2022, 14, 710-715		О
6	Probing Plasmons by EELS in Chiral Array of Hyperbolic Metasurfaces. The Role of Plasmon Canalization. <b>2022</b> , 393-415		O
5	Effect of molecular axis orientation of 3.6 MeV Si2+ projectiles on the ion-induced secondary electron emission from a carbon foil. <b>2023</b> , 535, 215-220		О
4	Variational Study of Atomic Properties of Ions and Atoms from He to Ne. <b>2023</b> , 11, 23		Ο
3	Unified Mechanics of Metals Under High Electrical Current Density: Electromigration and Thermomigration. <b>2022</b> , 427-458		О
2	Penetration of charged particles in ZnO using energy loss function model. 2023,		O
1	Frontiers, challenges, and solutions in modeling of swift heavy ion effects in materials. <b>2023</b> , 133, 1007	01	0