

# Eugene Oks

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	TEMPORARY REMOVAL: Relativistic Precession of Elliptical Orbits of a Circumbinary Planet can be Cancelled. <i>New Astronomy</i> , 2022, , 101772.	1.8	0
2	Relativistic Effects for a Hydrogen Rydberg Atom in a High-Frequency Laser Field: Analytical Results. <i>Foundations</i> , 2022, 2, 105-113.	1.3	0
3	Possible Observational Evidence for the Existence of a Parallel Universe. <i>Foundations</i> , 2022, 2, 1-5.	1.3	1
4	Peculiar Features of Molecular Hydrogen Ions Formed by Proton Collisions with Hydrogen Atoms of the Second Flavor. <i>Foundations</i> , 2022, 2, 228-233.	1.3	0
5	Distinctive Features of Charge Exchange Involving the Second Flavor of Hydrogen Atoms—The Candidates for Dark Matter. <i>Physics</i> , 2022, 4, 286-293.	1.4	0
6	Review of the Dynamics of Atomic and Molecular Systems of Higher than Geometric Symmetry—Part I: One-Electron Rydberg Quasimolecules. <i>Dynamics</i> , 2022, 2, 73-113.	1.2	0
7	Alternative way to detect and measure parameters of compact dark matter object as a component of a binary system. <i>New Astronomy</i> , 2021, 84, 101521.	1.8	2
8	Method for Measuring the Laser Field and the Opacity of Spectral Lines in Plasmas. <i>Plasma</i> , 2021, 4, 65-74.	1.8	0
9	Circular Rydberg states of helium atoms or helium-like ions in a high-frequency laser field. <i>Open Physics</i> , 2021, 19, 11-17.	1.7	1
10	Role of a Time Delay in the Gravitational Two-Body Problem. <i>Foundations of Physics</i> , 2021, 51, 1.	1.3	0
11	Classical Dynamics of Rydberg States of Muonic-Electronic Helium and Helium-Like Ions in a Weak Electric Field: Counter-Intuitive Linear Stark Effect. <i>Dynamics</i> , 2021, 1, 1-8.	1.2	0
12	Circular binary star and an interstellar interloper: The analytical solution. <i>New Astronomy</i> , 2021, 84, 101500.	1.8	4
13	Stark-Lorentz profiles of spectral lines of atoms and polar molecules in magnetized turbulent plasmas: analytical results. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	0
14	Stark broadening of hydrogenic spectral lines by two-dimensional multimode quasimonochromatic electric fields. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	0
15	Classical Description of Resonant Charge Exchange Involving the Second Flavor of Hydrogen Atoms. <i>Atoms</i> , 2021, 9, 41.	1.6	5
16	Orbital Dynamics in the Restricted Three Body Problem: Overview of Recent Analytical Advances Obtained by Separating Rapid and Slow Subsystems in Non-Planar Configurations. <i>Dynamics</i> , 2021, 1, 95-124.	1.2	0
17	Classical analytical description of negative hydrogen ions. <i>Canadian Journal of Physics</i> , 2021, 99, 783-787.	1.1	0
18	Precession of the Orbit of a Planet around Stars Revolving along: Low-Eccentricity Orbits in a Binary System: Analytical Solution. <i>New Astronomy</i> , 2021, 89, 101646.	1.8	2

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19	Analytical results for the motion of a Rydberg electron around a polar molecule: effects of a magnetic field of the arbitrary strength. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	1
20	DES map shows a smoother distribution of matter than expected: a possible explanation. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 241.	1.7	12
21	Review of Classical Analytical Results for the Motion of a Rydberg Electron around a Polar Molecule under Magnetic or Electric Fields of Arbitrary Strengths in Axially Symmetric Configurations. <i>Symmetry</i> , 2021, 13, 2171.	2.2	2
22	Analysis of Experimental Cross-Sections of Charge Exchange between Hydrogen Atoms and Protons Yields More Evidence of the Existence of the Second Flavor of Hydrogen Atoms. <i>Foundations</i> , 2021, 1, 265-270.	1.3	10
23	A Supersensitive Method for Spectroscopic Diagnostics of Electrostatic Waves in Magnetized Plasmas. <i>Plasma</i> , 2021, 4, 780-788.	1.8	1
24	Analytical solution for the three-dimensional motion of a circumbinary planet around a binary star. <i>New Astronomy</i> , 2020, 74, 101301.	1.8	9
25	Application of the Generalized Hamiltonian Dynamics to Spherical Harmonic Oscillators. <i>Symmetry</i> , 2020, 12, 1130.	2.2	3
26	Oscillatory-Precessional Motion of a Rydberg Electron Around a Polar Molecule. <i>Symmetry</i> , 2020, 12, 1275.	2.2	5
27	Classical analytical solution for Rydberg states of muonic <sup>μ</sup> electronic helium and helium-like ions. <i>Canadian Journal of Physics</i> , 2020, 98, 857-861.	1.1	4
28	Monopole Contribution to the Stark Width of Hydrogenlike Spectral Lines in Plasmas: Analytical Results. <i>Plasma</i> , 2020, 3, 180-186.	1.8	1
29	Analytical results for one-electron Rydberg quasimolecules in a high-frequency laser field. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	3
30	Two Flavors of Hydrogen Atoms: A Possible Explanation of Dark Matter. <i>Atoms</i> , 2020, 8, 33.	1.6	14
31	The role of the Debye screening of circular Rydberg states of hydrogenic systems in collinear electric and magnetic fields of arbitrary strengths. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	2
32	On profiles of hydrogenic spectral lines under stochastic electric fields of plasma turbulence: Applications to diagnostics of the Langmuir turbulence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105815.	2.9	1
33	Mini-Review: Hydrogen Atoms in a High-Frequency Laser Field. <i>Atoms</i> , 2019, 7, 83.	1.6	0
34	Effects of ultraintense magnetic fields due to relativistic laser-plasma interactions on Langmuir-wave-caused dips in x-ray spectral line profiles. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 157, 1-5.	2.9	1
35	Diagnostic of Langmuir Solitons in Plasmas Using Hydrogenic Spectral Lines. <i>Atoms</i> , 2019, 7, 25.	1.6	1
36	Stark broadening of hydrogen/deuterium spectral lines by a relativistic electron beam: analytical results and possible applications to magnetic fusion edge plasmas. <i>Journal of Physics Communications</i> , 2018, 2, 015030.	1.2	2

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37	Center-of-mass effects for hydrogen atoms in a nonuniform electric field: applications to magnetic fusion, radiofrequency discharges, and flare stars. <i>Journal of Physics Communications</i> , 2018, 2, 045005.	1.2	1
38	Allowance for more realistic trajectories of plasma electrons in the Stark broadening of hydrogenlike spectral lines. <i>Journal of Physics Communications</i> , 2018, 2, 035033.	1.2	2
39	Review of Recent Advances in the Analytical Theory of Stark Broadening of Hydrogenic Spectral Lines in Plasmas: Applications to Laboratory Discharges and Astrophysical Objects. <i>Atoms</i> , 2018, 6, 50.	1.6	11
40	X-ray Spectroscopy Based Diagnostic of GigaGauss Magnetic Fields during Relativistic Laser-Plasma Interactions. <i>Atoms</i> , 2018, 6, 60.	1.6	2
41	The Possibility of Measuring Nuclear Shapes by Using Spectral Lines of Muonic Ions. <i>Atoms</i> , 2018, 6, 14.	1.6	3
42	Improving the Method of Measuring the Electron Density via the Asymmetry of Hydrogenic Spectral Lines in Plasmas by Allowing for Penetrating Ions. <i>Atoms</i> , 2018, 6, 21.	1.6	0
43	Dips in spectral line profiles and their applications in plasma physics and atomic physics. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
44	The shape of spectral lines of two-electron Rydberg atoms/ions: analytical solution. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 115001.	1.5	2
45	In-depth study of intra-Stark spectroscopy in the x-ray range in relativistic laser-plasma interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 245006.	1.5	11
46	Estimate of the Stark shift by penetrating ions within the nearest perturber approximation for hydrogenlike spectral lines in plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 245002.	1.5	3
47	Using X-ray spectroscopy of relativistic laser plasma interaction to reveal parametric decay instabilities: a modeling tool for astrophysics. <i>Optics Express</i> , 2017, 25, 1958.	3.4	16
48	X-ray spectroscopy of super-intense laser-produced plasmas for the study of nonlinear processes. Comparison with PIC simulations. <i>Journal of Physics: Conference Series</i> , 2017, 810, 012004.	0.4	3
49	Latest advances in the semiclassical theory of the Stark broadening of spectral lines in plasmas. <i>Journal of Physics: Conference Series</i> , 2017, 810, 012006.	0.4	2
50	Lorentz-Doppler profiles of hydrogen/deuterium lines for magnetic fusion: analytical solution for any angle of observation and any magnetic field strength. <i>Journal of Physics Communications</i> , 2017, 1, 055011.	1.2	0
51	Influence of magnetic-field-caused modifications of trajectories of plasma electrons on spectral line shapes: Applications to magnetic fusion and white dwarfs. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 171, 15-27.	2.3	8
52	Classical description of charge exchange involving He-like or Li-like ions in Rydberg states in plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 035002.	1.5	2
53	FLARE STARS—A FAVORABLE OBJECT FOR STUDYING MECHANISMS OF NONTHERMAL ASTROPHYSICAL PHENOMENA. <i>Astrophysical Journal</i> , 2016, 819, 16.	4.5	7
54	Role of Lorentz-Stark broadening of hydrogen spectral lines in magnetized plasmas: Applications to magnetic fusion and solar physics. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 156, 24-35.	2.3	6

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55	STABLE CONIC-HELICAL ORBITS OF PLANETS AROUND BINARY STARS: ANALYTICAL RESULTS. <i>Astrophysical Journal</i> , 2015, 804, 106.	4.5	25
56	Refinement of the semiclassical theory of the Stark broadening of hydrogen spectral lines in plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 152, 74-83.	2.3	4
57	Review of Langmuir-Wave-Caused Dips and Charge-Exchange-Caused Dips in Spectral Lines from Plasmas and their Applications. <i>Atoms</i> , 2014, 2, 178-194.	1.6	10
58	Review of the phenomenon of dips in spectral lines emitted from plasmas and their applications. <i>Journal of Physics: Conference Series</i> , 2014, 548, 012030.	0.4	2
59	Two-plasmon decay instability's signature in spectral lines and spectroscopic measurements of charge exchange rate in a femtosecond laser-driven cluster-based plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 221001.	1.5	5
60	Muonic electronic quasi molecules based on a fully stripped multicharged ion. <i>Canadian Journal of Physics</i> , 2014, 92, 1405-1410.	1.1	5
61	Analytical solutions for diatomic Rydberg quasimolecules in a laser field. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	5
62	Muonic electronic negative hydrogen ion: circular states. <i>Canadian Journal of Physics</i> , 2013, 91, 715-721.	1.1	8
63	Ionization channel of continuum lowering in plasmas: effects of plasma screening, electric and magnetic fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 245701.	1.5	6
64	Electric field induced crossings of energy terms of a Rydberg quasi molecule enhancing charge exchange and ionization. <i>Canadian Journal of Physics</i> , 2012, 90, 647-654.	1.1	7
65	Charge Exchange Signatures in X-Ray Line Emission Accompanying Plasma-Wall Interaction. <i>Journal of Physics: Conference Series</i> , 2012, 397, 012017.	0.4	6
66	Broadening of Hydrogenic Spectral Lines in Magnetized Plasmas: Diagnostic Applications. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2012, , 393-431.	0.2	3
67	Nonexistence of a local suppression in the ionization of hydrogen atoms by a low-frequency laser field of arbitrary strength. <i>Canadian Journal of Physics</i> , 2011, 89, 849-855.	1.1	4
68	Spectroscopic diagnostic of Langmuir turbulence in magnetic fusion plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 101004.	1.5	5
69	Theories, Experiments, and Simulations of Spectral Line Shapes: Pitfalls in the Network. , 2010, , .		0
70	New Statistical Multiparticle Approach to the Acceleration of Electrons by the Ion Field in Plasmas. <i>International Journal of Spectroscopy</i> , 2010, 2010, 1-4.	1.6	2
71	Relation between Theories, Experiments, and Simulations of Spectral Line Shapes. <i>International Journal of Spectroscopy</i> , 2010, 2010, 1-4.	1.6	0
72	Spectral Line Shapes in Plasmas and Gases. <i>International Journal of Spectroscopy</i> , 2010, 2010, 1-2.	1.6	0

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73	Laser-Induced Optical Breakdown in Methane: Diagnostic Using H-Gamma Line Broadening. International Journal of Spectroscopy, 2010, 2010, 1-4.	1.6	10
74	Spectroscopic diagnostics of plasma interaction with an external oscillatory field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 195001.	1.5	6
75	Signature of externally introduced laser fields in X-ray emission of multicharged ions. High Energy Density Physics, 2009, 5, 139-146.	1.5	4
76	Benchmarking of alternate theories for Stark broadening against experimental data from DIII-D diagnostics. Plasma Physics Reports, 2009, 35, 112-117.	0.9	3
77	Plasma screening within Rydberg atoms in circular states. European Physical Journal D, 2008, 47, 27-31.	1.3	21
78	X-ray Spectroscopy of Hot Dense Plasmas: Experimental Limits, Line Shifts & Field Effects. , 2008, , .		3
79	Experimental determination of rate coefficients of charge exchange from x-rays in laser-produced plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 909-919.	1.5	14
80	Magnetic stabilization of a Rydberg quasimolecule in circular states. Physical Review A, 2006, 73, .	2.5	14
81	Use of Quasienergy States for Laser-Aided Diagnostics of Oscillatory Electric Fields in Plasmas. AIP Conference Proceedings, 2006, , .	0.4	0
82	Improved Interpretation of Stark Broadening Data from Detached Divertor Plasmas. AIP Conference Proceedings, 2006, , .	0.4	1
83	Stark Widths of Hydrogen Spectral Lines in Plasmas: a Highly-Advanced Non-Simulative Semiclassical Theory and Tables. AIP Conference Proceedings, 2006, , .	0.4	6
84	Comment on paper "A critical analysis of the advanced generalized theory: Applicability and applications" by Alexiou et al.. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 252-254.	2.3	2
85	Experimental evidence of Langmuir-wave-caused features in spectral lines of laser-produced plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 439-450.	2.3	19
86	Spectroscopic study of anomalous electric fields in peripheral regions of a current sheet plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 5119-5129.	1.5	22
87	Reply to "Comment on 'Highly nonlinear, sign-varying shift of hydrogen spectral lines in dense plasmas'" by . Physical Review E, 2004, 69, .	2.1	2
88	Circular Rydberg states of hydrogenlike systems in collinear electric and magnetic fields of arbitrary strengths: an exact analytical classical solution. European Physical Journal D, 2004, 28, 171-179.	1.3	13
89	Towards the design of tunable X-ray lasers by dressing the plasma with the elliptically polarized radiation of an optical laser. European Physical Journal D, 2004, 28, 253-257.	1.3	1
90	On the Puzzle of the Observed Narrowing of Radio Recombination Lines. Astrophysical Journal, 2004, 609, L25-L28.	4.5	11

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91	Balmer series H <sub>1</sub> <sup>2</sup> measurements in a laser-induced hydrogen plasma. Applied Optics, 2003, 42, 5992.	2.1	70
92	Comparison of the Stark widths and shifts of the H-alpha line measured in a flash tube plasma with theoretical results. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 283-296.	1.5	39
93	Reply to Comment on the proposed reduction of red shifts of the Balmer- $\tilde{A}$ line in dense plasmas by the dipole ionic-electronic shift. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1459-1462.	1.5	3
94	Application of Dirac's generalized Hamiltonian dynamics to atomic and molecular systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 165-173.	1.5	10
95	Reduction of spectral line shifts due to the acceleration of electrons by the ion field in plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 2251-2260.	1.5	20
96	The Latest Advances and New Physics Based on the Generalized Theory of Stark Broadening. AIP Conference Proceedings, 2002, , .	0.4	0
97	Advanced simulations of spectroscopic signatures of charge exchange in laser-produced plasmas. European Physical Journal D, 2002, 20, 269-274.	1.3	8
98	Comparison of the latest experimental H-alpha results at the Bochum's gas-liner pinch with the upgraded advanced generalized theory. AIP Conference Proceedings, 2001, , .	0.4	2
99	A new, highly unusual shift of hydrogen-like spectral lines in dense plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 71, 561-569.	2.3	1
100	Experimental discovery of charge-exchange-caused dips in spectral lines from laser-produced plasmas. Physical Review E, 2001, 64, 065401.	2.1	13
101	Role of higher multipoles in field-induced continuum lowering in plasmas. Physical Review E, 2001, 63, 057401.	2.1	12
102	Application of the Generalized Theory of Stark Broadening to Experimental Highly-Excited Balmer Lines from a Radio-Frequency Discharge. Contributions To Plasma Physics, 2000, 40, 158-161.	1.1	2
103	A new spectroscopic effect resulting in a narrowing of hydrogen lines in dense plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 405-414.	2.3	25
104	Review of the advanced generalized theory for Stark broadening of hydrogen lines in plasmas with tables. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 543-571.	2.3	35
105	Spectroscopic signatures of avoided crossings caused by charge exchange in plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3795-3806.	1.5	14
106	Rydberg electron dynamics in high-frequency elliptically polarized microwave fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 207-221.	1.5	9
107	Extrema in transition energies resulting not in satellites but in dips within spectral lines. Physical Review E, 2000, 62, R3067-R3070.	2.1	11
108	Highly nonlinear, sign-varying shift of hydrogen spectral lines in dense plasmas. Physical Review E, 2000, 62, 2667-2671.	2.1	24

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109	Are Crossings of Energy Levels and Charge Exchange Really Quantum Phenomena?. Physical Review Letters, 2000, 85, 2084-2087.	7.8	20
110	A purely classical description of crossings of energy levels and spectroscopic signatures of charge exchange. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3319-3330.	1.5	18
111	Interpretation of measured Stark broadened profiles of highly excited hydrogen lines emitted from a low-density, low-temperature plasma. , 1999, , .		0
112	A new spectroscopic effect depressing the electron impact broadening in dense plasmas. , 1999, , .		1
113	Exact analytical solution for the ion impact broadening of hydrogen lines in plasmas at high densities or high principal quantum numbers. , 1999, , .		2
114	Distinctive features of the advanced generalized theory of Stark broadening of hydrogen lines in plasmas. , 1999, , .		0
115	Enhancement of the spectroscopic method for mapping microwave fields in tokamak plasmas. Review of Scientific Instruments, 1999, 70, 363-367.	1.3	2
116	Advance in diagnostics for high-temperature plasmas based on the analytical result for the ion dynamical broadening of hydrogen spectral lines. Physical Review E, 1999, 60, R2480-R2483.	2.1	18
117	Density Measurements from the Asymmetry of the Lyman $\hat{1}\uparrow$ Line in a Vacuum Spark Lithium Discharge. Contributions To Plasma Physics, 1999, 39, 529-539.	1.1	0
118	Exact solution for the impact broadening of the hydrogen lines Lyman-beta and Lyman-gamma. , 1999, , .		1
119	Dual purpose diagnostics of edge plasmas of Tokamaks based on a novel spectroscopic effect. Review of Scientific Instruments, 1997, 68, 998-1001.	1.3	3
120	Hydrogen lines with central Stark components as a sensitive magnetic probe. AIP Conference Proceedings, 1997, , .	0.4	0
121	A new multi-particle model of ion broadening applicable for both high and low densities. AIP Conference Proceedings, 1997, , .	0.4	1
122	Theoretical and experimental advances in spectroscopy of strong and/or dynamic electric fields in plasmas. AIP Conference Proceedings, 1997, , .	0.4	1
123	New type of shift of hydrogen and hydrogenlike spectral lines. Journal of Quantitative Spectroscopy and Radiative Transfer, 1997, 58, 821-826.	2.3	17
124	Anomalous Electric Fields Inside a Dense Plasma of a Current Sheet. Contributions To Plasma Physics, 1996, 36, 667-678.	1.1	11
125	Ion impacts on moving emitters: A convergent theory of anisotropic broadening in high-temperature plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 54, 137-142.	2.3	3
126	A generalized theory of stark broadening of hydrogen-like spectral lines in dense plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 54, 307-315.	2.3	15



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127	Improved theory of ion impact broadening in magnetized plasmas and its diagnostic applications. AIP Conference Proceedings, 1995, , .	0.4	0
128	Anomalous broadeningâ€™Anomalous electric fields?. AIP Conference Proceedings, 1995, , .	0.4	0
129	Novel Structure in theHÎ±-Line Profile of Hydrogen in a Dense Helium Plasma. Physical Review Letters, 1995, 75, 4740-4743.	7.8	18
130	Plasma Spectroscopy. , 1995, , .		43
131	Generalized Theory of Ion Impact Broadening in Magnetized Plasmas and Its Applications for Tokamaks. Physical Review Letters, 1994, 73, 2059-2062.	7.8	20
132	A convergent theory of Stark broadening of hydrogen lines in dense plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 1994, 51, 129-138.	2.3	43