

LIST OF PUBLICATIONS – Prof. Volker E. Oberacker

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Refereed Journal Articles and Book Chapters

1. *Derivation of a coupling potential for Coulomb-nuclear interference effects*, V. Oberacker, H. Holm and W. Scheid, Phys. Rev. C10 (1974) 1917-1921
2. *Superheavy intermediate molecules and quantum electrodynamics of overcritical fields in heavy-ion collisions*, V. Oberacker, G. Soff and W. Greiner, Proc. Int. School Seminar on Reactions of Heavy Ions with Nuclei and Synthesis of New Elements, Dubna, U.S.S.R. (1975), pp.235-245
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4. *Internal pair formation following Coulomb excitation of heavy nuclei*, V. Oberacker, G. Soff and W. Greiner, Phys. Rev. Lett. 36 (1976) 1024-1027
5. *On the possibility of detecting superheavy quasimolecules*, W. Schäfer, V. Oberacker and G. Soff, Nucl. Phys. A272 (1976) 493-501
6. *Atomic physics with superheavy quasimolecules*, W. Betz, G. Heiligenthal, B. Müller, V. Oberacker, J. Reinhardt, W. Schäfer, G. Soff and W. Greiner, Proc. Int. Summer School on Heavy-Ion Physics, Predeal, Romania (1976), eds. V. Ceausescu and I.A. Dorobantu, pp.1-41
7. *The dependence of Coulomb fission on nuclear structure*, V. Oberacker, G. Soff and W. Greiner, J. Phys. G: Nucl. Phys. 3 (1977) L271-L276
8. *Multiple Coulomb and nuclear excitation of ^{238}U with very heavy ions*, V. Oberacker and G. Soff, Z. Naturforsch. 32a (1977) 1465-1476
9. *Positron creation in collisions of very heavy nuclei*, B. Müller, V. Oberacker, J. Reinhardt, G. Soff and W. Greiner, Proc. 15th Int. Winter Meeting on Nuclear Physics, Bormio, Italy (1977), p.243-
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12. *Quantum electrodynamics of strong fields and its test in heavy ion molecular collisions*, B. Müller, V. Oberacker, J. Reinhardt, G. Soff, W. Greiner and J. Rafelski, Proc. Int. Symp. on Nuclear Collisions and their Microscopic Description, Bled, Yugoslavia (1977); Fizika 9 (1977), Suppl. 4, pp. 765-785

13. *Quantum electrodynamical effects in heavy-ion collisions*, J. Reinhardt, V. Oberacker, G. Soff, B. Müller and W. Greiner, Proc. Int. Meeting on Reactions of Heavy Ions with Nuclei and Synthesis of New Elements, Dubna, U.S.S.R. (1977), 14 pages
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15. *Inner-shell ionization induced by nuclear Coulomb excitation in collisions of very heavy ions*, G. Soff, V. Oberacker and W. Greiner, Phys. Rev. Lett. 41 (1978) 1167-1170
16. *Present status of Coulomb fission - theory and experiment*, V. Oberacker, G. Soff, M. Seiwert and W. Greiner, Proc. 16th Int. Winter Meeting on Nuclear Physics, Bormio, Italy (1978), pp. 220-239
17. *Theory of positron production in heavy ion collisions*, J. Reinhardt, V. Oberacker, B. Müller, W. Greiner and G. Soff, Proc. Predeal Int. School, Predeal, Romania (1978); publ. in Heavy Ion Physics, eds. V. Ceausescu, I.A. Dorobantu and A. Berinde, pp. 69-132
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2. *Neue Ergebnisse zur Positronenerzeugung in Schwerionen-Stößen*, J. Reinhardt, G. Soff, V. Oberacker and B. Müller, Spring Meeting of the German Phys. Society, Konstanz, Germany (1977); Verhandlungen der DPG (1977), p.850
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3. Organizing Committee, First Symposium on Nuclear Physics in the Universe, Oak Ridge National Laboratory (Sep. 24-26, 1992)
4. Organizing Committee, NATO Advanced Study Institute on Hot and Dense Nuclear Matter, Bodrum/Turkey (Sep. 26 - Oct. 9, 1993)
5. Organizing Committee, Student Physics Society Zone 8 Conference, Vanderbilt University, (March 29-30, 1996)

6. Organizing Committee, International Workshop on Condensed Matter Theories XXII, Nashville, TN (1998)
7. Session Chair, Int. Conference NUCLEAR STRUCTURE '98, Gatlinburg, TN (August 10-15, 1998)
8. Session Chair, International Conference on Physics with Radioactive Ion Beams (ISOL'01), Oak Ridge, TN (March 11-14, 2001)
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14. Session Chair, 3rd LACM-EFES-JUSTIPEN Workshop, Oak Ridge National Laboratory, Feb. 23-25, 2009
15. Member of the International Advisory Committee, 4-th International Conference on “Current Problems in Nuclear Physics and Atomic Energy (NPAE-Kyiv2012)”, Sep. 3-7, 2012 (Kiev, Ukraine).