# Curriculum Vitae


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| **Name:** | **Dale Keith Hensley** | **Position Title:** Controlled Synthesis Engineer |
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## Research and Professional Experience:

**11/05 – Present:**

**Controlled Synthesis Engineer**, Nanofabrication Research Laboratory (NRL) group, Center for Nanophase Material Sciences Division (CNMS), Oak Ridge National Laboratory (ORNL). Initial focus was the start up phase of CNMS, purchasing, installing and commissioning of tools in the cleanroom and labs. Focus has shifted to user support/training and the controlled synthesis of Vertically Aligned Carbon Nanofibers (VACNF) using dc plasma-enhanced chemical vapor deposition (DCPECVD). Other responsibilities include: Tool ownership, Lab Space Manger, Interactions with engineers, researchers (internal and external), ORNL support personnel, technicians and a multi-craft crew, and outside vendors.

**12/01 – 11/05:**

**Controlled Synthesis Research Associate**, Molecular-Scale Engineering and Nanoscale Technologies (MENT) group, Condensed Matter Sciences Division, ORNL. Focused on the controlled synthesis of Vertically Aligned Carbon Nanofibers (VACNF) using dc plasma-enhanced chemical vapor deposition (DCPECVD). Independently developed a new growth system, the HIPPA, an 8" DCPECVD system. Responsible for two smaller DCPECVD systems and a 10 kW e-beam evaporator, located inside the Nanoscale Science and Technology Laboratory Clean Room Facility. Experienced user of Hitachi S4700 Scanning Electron Microscope (SEM) and the Oxford Instruments EDX (Energy Dispersive X-ray microanalysis) for studying chemistry on the nano scale. Trained team members and external users for all above synthesis, fabrication, and characterization systems. Participated in the startup of the Nanoscale Science and Technology Laboratory Clean Room Facility. Principal Investigator for the project, "Nanostructured Gene Delivery Arrays". Participated as part of several large interdisciplinary research teams in the following projects: Neuronal interfaces, Cell mimic, Membrane mimic, DEAL, Intracell, Maximus, TFT arrays, F-extraction and CNMS.

**3/91 – 12/01:**

**Principal Technologist**, Surface Modification and Characterization Research Center (SMAC), Solid State Division, ORNL, Focused on ion implantation and ion beam analysis of materials and engaged in collaborative research involving scientists from academic, industrial, and government laboratories worldwide through a user program. Responsibilities included: development, operation, and maintenance of state-of-the-art tandem ion beam accelerator and ion sources; participating in experiments with postdocs, personnel from other ORNL groups, and external users (international and national); training new users; ensuring safe operation of the facility; and supervision of crafts and outside contractors performing maintenance and installation of equipment and utilities. Job responsibilities required extensive knowledge of and experience with: design, construction, assembly, and testing of accelerator components beam lines, beam line equipment, and vacuum chambers and technology: mechanical pumps, scroll pumps, turbomolecular drag pumps, diffusion pumps, ion pumps, cryopumps, electropneumatic valves, vacuum gauges, leak detectors, and other vacuum instrumentation.

**8/83 – 3/91:**

**Engineering Technologist**, Oak Ridge Electron Linear Accelerator (ORELA), ORNL. Focused on operation of the 149 MeV accelerator, which involved following operating procedures; troubleshooting; operating and calibrating diagnostic instrumentation, accelerator components, and a variety of systems and equipment for a international user community. The variety of systems and equipment included: vacuum, cooling, spectrometer, thermocouple, magnets, electronic instrumentation, cryogenic, RF and HVPS. Operations also included: verifying data acquisition and performing data analysis; updating and drawing blueprints by hand and computer-aided design systems; developing and maintaining an in-house preventive maintenance program; and compiling data for Utilization and User Facility usage reports. Assignment required interaction with engineers, physicists, ORNL support personnel, technicians and a multi-craft crew.

## Awards and Honors:

**Technical Support Team Award**, for successful operation of the Nanofabrication Research Laboratory and the growth of a vibrant user community, received in November 2008.

**Technical Achievement Award,** for developing a novel time-shared, foreline and roughing vacuum system for the Surface Modification and Characterization Research Center that resulted in a greatly reduced environmental impact while achieving an annual cost savings of approximately $31,000, received in May 1998.

**Pollution Prevention Award**, Large Quantity Generator, Chlorinated Water Minimization, received in 1993.

## Education/Training:

Associate Degree in Electronic Technology, 1983. Tennessee Institute of Electronics, Knoxville, TN 37918.

Successful completion of AVS short courses in Plasma Enhanced CVD, Plasma Etching and RIE, Basics of Radio Frequency, Surface Preparation for Thin-Film Deposition, and Thin Film Deposition by Evaporation, Operation, Maintenance and Leak Detection of Vacuum Systems.

## Co-Authored Published Papers:

Record 1 of 49
Author(s): Retterer, S.T., A. Melechko, D.K. Hensley, M.L. Simpson, and M.J. Doktycz,
Title: Positional control of catalyst nanoparticles for the synthesis of high density carbon nanofiber arrays.
Source: Carbon, 2008. 46(11): p. 1378-1383.
Times Cited:0
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Record 2 of 49
Author(s): Guan, Y.F., R.C. Pearce, A.V. Melechko, D.K. Hensley, M.L. Simpson, and P.D. Rack,
Title: Pulsed laser dewetting of nickel catalyst for carbon nanofiber growth.
Source: Nanotechnology, 2008. 19(23) Article Number: 235604.
Times Cited:1
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Record 3 of 49
Author(s): Melechko, A. V., K. L. Klein, J. D. Fowlkes, D. K. Hensley, I. A. Merkulov, T. E. McKnight, P. D. Rack, J. A. Horton and M. L. Simpson.
Title: Control of carbon nanostructure: From nanofiber toward nanotube and back
Source: Journal of Applied Physics 102(7): 074314-7(2007).
Times Cited:1
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Record 4 of 49
Author(s): Fowlkes, J.D., A.V. Melechko, K.L. Klein, P.D. Rack, D.A. Smith, D.K. Hensley, M.J. Doktycz, and M.L. Simpson,
Title: Control of catalyst particle crystallographic orientation in vertically aligned carbon nanofiber synthesis.
Source: Carbon, 2006. 44(8): p. 1503-1510.
Times Cited:8
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Record 5 of 49
Author(s): Fowlkes, J.D., E.D. Hullander, B.L. Fletcher, S.T. Retterer, A.V. Melechko, D.K. Hensley, M.L. Simpson, and M.J. Doktycz,
Title: Molecular transport in a crowded volume created from vertically aligned carbon nanofibres: a fluorescence recovery after photobleaching study.
Source: Nanotechnology, 2006. 17(22): p. 5659-5668.
Times Cited:6
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Record 6 of 49
Author(s): McKnight, T.E., A.V. Melechko, B.L. Fletcher, S.W. Jones, D.K. Hensley, D.B. Peckys, G.D. Griffin, M.L. Simpson, and M.N. Ericson,
Title: Resident Neuroelectrochemical Interfacing Using Carbon Nanofiber Arrays.
Source: J. Phys. Chem. B, 2006. 110(31): p. 15317-15327.
Times Cited:7
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Record 7 of 49
Author(s): Klein, K.L., A.V. Melechko, J.D. Fowlkes, P.A. Rack, D.K. Hensley, H.M. Meyer, L.F. Allard, T.E. McKnight, and M.L. Simpson,
Title: Formation of ultrasharp vertically aligned Cu-Si nanocones by a DC plasma process..
Source: Journal of Physical Chemistry B, 2006. 110(10): p. 4766-4771.
Times Cited:2
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Record 8 of 49
Author(s): Fletcher, B.L., T.E. McKnight, A.V. Melechko, D.K. Hensley, D.K. Thomas, M.N. Ericson, and M.L. Simpson,
Title: Transfer of flexible arrays of vertically aligned carbon nanofiber electrodes to temperature-sensitive substrates.
Source: Advanced Materials, 2006. 18(13): p. 1689-+
Times Cited:6
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Record 9 of 49
Author(s): Fowlkes, J. D., B L Fletcher, E D Hullander, K L Klein, D K Hensley, A V Melechko, M L Simpson and M J Doktycz,
Title: Tailored transport through vertically aligned carbon nanofibre membranes; controlled synthesis, modelling, and passive diffusion experiments,
Source: Nanotechnology v.16 p.3101-3109 (2005),
Times Cited:0
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Record 10 of 49
Author(s): Rodrigues, MG; da Cruz, NC; Rangel, EC; Zimmerman, RL; Ila, D; Poker, DB; Hensley, DK
Title: Effects of ion beam on nanoindentation characteristics of glassy polymeric carbon surface
Source: SURFACE & COATINGS TECHNOLOGY, 196 (1-3): 251-256 JUN 22 2005
Times Cited: 0
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Record 11 of 49
Author(s): Baylor, LR; Gardner, WL; Yang, X; Kasica, RJ; Guillorn, MA; Blalock, B; Cui, H; Hensley, DK; Islam, S; Lowndes, DH; Melechko, AV; Merkulov, VI; Joy, DC; Rack, PD; Simpson, ML; Thomas, DK
Title: Initial lithography results from the digital electrostatic e-beam array lithography concept
Source: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, 22 (6): 3021-3024 NOV-DEC 2004
Times Cited: 16
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Record 12 of 49
Author(s): Fletcher, BL; Hullander, ED; Melechko, AV; McKnight, TE; Klein, KL; Hensley, DK; Morrell, JL; Simpson, ML; Doktycz, MJ
Title: Microarrays of biomimetic cells formed by the controlled synthesis of carbon nanofiber membranes
Source: NANO LETTERS, 4 (10): 1809-1814 OCT 2004
Times Cited: 20
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Record 13 of 49
Author(s): McKnight, TE; Melechko, AV; Hensley, DK; Mann, DGJ; Griffin, GD; Simpson, ML
Title: Tracking gene expression after DNA delivery using spatially indexed nanofiber Arrays
Source: NANO LETTERS, 4 (7): 1213-1219 JUL 2004
Times Cited: 37
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Record 14 of 49
Author(s): Guillorn, MA; Yang, X; Melechko, AV; Hensley, DK; Hale, MD; Merkulov, VI; Simpson, ML; Baylor, LR; Gardner, WL; Lowndes, DH
Title: Vertically aligned carbon nanofiber-based field emission electron sources with an integrated focusing electrode
Source: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, 22 (1): 35-49 JAN-FEB 2004
Times Cited: 32
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Record 15 of 49
Author(s): Melechko, AV; McKnight, TE; Hensley, DK; Guillorn, MA; Borisevich, AY; Merkulov, VI; Lowndes, DH; Simpson, ML
Title: Large-scale synthesis of arrays of high-aspect-ratio rigid vertically aligned carbon nanofibres
Source: NANOTECHNOLOGY, 14 (9): 1029-1035 SEP 2003
Times Cited: 29
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Record 16 of 49
Author(s): McKnight, TE; Melechko, AV; Griffin, GD; Guillorn, MA; Merkulov, VI; Serna, F; Hensley, DK; Doktycz, MJ; Lowndes, DH; Simpson, ML
Title: Intracellular integration of synthetic nanostructures with viable cells for controlled biochemical manipulation
Source: NANOTECHNOLOGY, 14 (5): 551-556 MAY 2003
Times Cited: 50
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Record 17 of 49
Author(s): Baylor, LR; Lowndes, DH; Simpson, ML; Thomas, CE; Guillorn, MA; Merkulov, VI; Whealton, JH; Ellis, ED; Hensley, DK; Melechko, AV
Title: Digital electrostatic electron-beam array lithography
Source: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, 20 (6): 2646-2650 NOV-DEC 2002
Times Cited: 32
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Record 18 of 49
Author(s): Guillorn, MA; Melechko, AV; Merkulov, VI; Hensley, DK; Simpson, ML; Lowndes, DH
Title: Self-aligned gated field emission devices using single carbon nanofiber cathodes
Source: APPLIED PHYSICS LETTERS, 81 (19): 3660-3662 NOV 4 2002
Times Cited: 52
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Record 19 of 49
Author(s): Merkulov, VI; Hensley, DK; Melechko, AV; Guillorn, MA; Lowndes, DH; Simpson, ML
Title: Control mechanisms for the growth of isolated vertically aligned carbon nanofibers
Source: JOURNAL OF PHYSICAL CHEMISTRY B, 106 (41): 10570-10577 OCT 17 2002
Times Cited: 41
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Record 20 of 49
Author(s): Ila, D; Zimmerman, RL; Muntele, CI; Thevenard, P; Orucevic, F; Santamaria, CL; Guichard, PS; Schiestel, S; Carosella, CA; Hubler, GK; Poker, DB; Hensley, DK
Title: Nano-cluster engineering: A combined ion implantation/co-deposition and ionizing radiation
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 191: 416-421 MAY 2002
Times Cited: 12
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Record 21 of 49
Author(s): Rodrigues, MG; da Cruz, NC; Rangel, EC; Zimmerman, RL; Ila, D; Poker, DB; Hensley, DK
Title: Nanoindentation mechanical properties characterization of glassy polymeric carbon treated with ion beam
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 191: 524-529 MAY 2002
Times Cited: 2
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Record 22 of 49
Author(s): Magruder, RH; Weller, RA; Weeks, RA; Wehrmeyer, J; Zuhr, RA; Hensley, DK
Title: Effects of ArF excimer irradiation on single energy and multi energy Ge ion implanted silica
Source: JOURNAL OF NON-CRYSTALLINE SOLIDS, Volume: 280 Issue:1-3 Pages:169-176 FEB 2001
Times Cited: 3
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Record 23 of 49
Author(s): Williams, EK; Ila, D; Poker, DB; Hensley, DK; Larkin, DJ
Title: Ion beam induced change in the linear optical properties of SiC
Source: SILICON CARBIDE AND RELATED MATERIALS - 1999 PTS, 1 & 2, 338-3: 667-670 2000
Book series title: MATERIALS SCIENCE FORUM
Times Cited: 1
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Record 24 of 49
Author(s): Muntele, CI; Ila, D; Williams, EK; Poker, DB; Hensley, DK; Larkin, DJ; Muntele, I
Title: Fabrication of SiC hydrogen sensor by Pd-implantation
Source: SILICON CARBIDE AND RELATED MATERIALS - 1999 PTS, 1 & 2, 338-3: 1443-1446 2000
Book series title: MATERIALS SCIENCE FORUM
Times Cited: 1
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Record 25 of 49
Author(s): Magruder, RH; Weller, RA; Weeks, RA; Zuhr, RA; Hensley, DK
Title: Effects of MeV energy titanium ion implants on the oxygen related defects centers in silica
Source: JOURNAL OF NON-CRYSTALLINE SOLIDS, 274 (1-3): 282-288 SEP 2000
Times Cited: 2
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Record 26 of 49
Author(s): Sarkisov, SS; Curley, MJ; Williams, EK; Ila, D; Svetchnikov, VL; Zandbergen, HW; Zykov, GA; Banks, C; Wang, JC; Poker, DB; Hensley, DK
Title: Nonlinear optical waveguides produced by MeV ion implantation in LiNbO3
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 166: 750-757 MAY 2000
Times Cited: 8
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Record 27 of 49
Author(s): Ila, D; Williams, EK; Zimmerman, RL; Poker, DB; Hensley, DK
Title: Radiation induced nucleation of nanoparticles in silica
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 166: 845-850 MAY 2000
Times Cited: 21
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Record 28 of 49
Author(s): Zimmerman, RL; Ila, D; Williams, EK; Gasic, B; Elsamadicy, A; Evelyn, AL; Poker, DB; Hensley, DK; Larkin, DJ
Title: Gold, silver and copper nanocrystal formation in SiC by MeV implantation
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 166: 892-896 MAY 2000
Times Cited: 5
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Record 29 of 49
Author(s): Magruder, RH; Weeks, RA; Weller, RA; Zuhr, RA; Hensley, DK
Title: Oxygen related defect center formation in MeV energy boron implanted silica
Source: JOURNAL OF NON-CRYSTALLINE SOLIDS, 259: 73-80 NOV 1999
Times Cited: 8
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Record 30 of 49
Author(s): Ila, D; Williams, EK; Smith, CC; Poker, DB; Hensley, DK; Klatt, C; Kalbitzer, S
Title: Post-implantation bombardment assisted formation of colloidal Au in silica
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 148 (1-4): 1012-1016 JAN 1999
Times Cited: 9
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Record 31 of 49
Author(s): Zimmerman, RL; Ila, D; Williams, EK; Poker, DB; Hensley, DK; Klatt, C; Kalbitzer, S
Title: Ion beam synthesis of Au and Cu nanoclusters in MgO
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 148 (1-4): 1064-1068 JAN 1999
Times Cited: 19
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Record 32 of 49
Author(s): Evelyn, AL; Ila, D; Zimmerman, RL; Bhat, K; Poker, D; Hensley, DK; Klatt, C; Kalbitzer, S; Just, N; Drevet, C
Title: Ion beam modification of PES, PS and PVC polymers
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 148 (1-4): 1141-1145 JAN 1999
Times Cited: 9

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Record 33 of 49
Author(s): Magruder, RH; Weeks, RA; Weller, RA; Zuhr, RA; Hensley, DK
Title: Formation and photosensitivity of defects in Se implanted silica
Source: JOURNAL OF NON-CRYSTALLINE SOLIDS, 249 (1-3): 78-83 OCT 1998
Times Cited: 4

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Record 34 of 49
Author(s): Evelyn AL, Ila D, Zimmerman RL, Bhat K, Poker DB, Hensley, DK
Title: Effects of MeV ions on PE and PVDC
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 141 Issue: 1-4 Pages: 164-168 MAY 1998
Times Cited: **7**

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Record 35 of 49
Author(s): Williams, EK; Ila, D; Sarkisov, S; Curley, M; Cochrane, JC; Poker, DB; Hensley, DK; Borel, C
Title: Study of the effects of MeV Ag and Au implantation on the optical properties of LiNbO3
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 141 Issue: 1-4 Pages: 268-273 MAY 1998
Times Cited: 6

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Record 36 of 49
Author(s): Ila, D; Williams, EK; Sarkisov, S; Smith, CC; Poker, DB; Hensley, DK
Title: Formation of metallic nanoclusters in silica by ion implantation
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 141 Issue: 1-4 Pages: 289-293 MAY 1998
Times Cited: 53

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Record 37 of 49
Author(s): Sarkisov, SS; Williams, E; Curley, M; Ila, D; Venkateswarlu, P; Poker, DB; Hensley, DK
Title: Third order optical nonlinearity of colloidal metal nanoclusters formed by MeV ion implantation
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 141 Issue: 1-4 Pages: 294-298 MAY 1998
Times Cited: 16

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Record 38 of 49
Author(s): Zimmerman, RL; Ila, D; Williams, EK; Sarkisov, S; Poker, DB; Hensley, DK
Title: Fabrication of copper and gold nanoclusters in MgO (100) by MeV ion implantation
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 141 Issue: 1-4 Pages: 308-311 MAY 1998
Times Cited: 22

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Record 39 of 49
Author(s): Magruder, RH; Weeks, RA; Zuhr, RA; Hensley, DK
Title: Optical absorption and photosensitivity of N implanted silica
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 141 Issue:1-4 Pages: 575-579 MAY 1998
Times Cited: 1

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Record 40 of 49
Author(s): Darwish, A; Ila, D; Poker, DB; Hensley, DK
Title: Investigation of Mn implanted LiNbO3 applying electron paramagnetic resonance
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 141 Issue: 1-4 Pages: 679-683 MAY 1998
Times Cited: 5
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Record 41 of 49
Author(s): Taylor, T; Ila, D; Zimmerman, RL; Cochrane, JC; Ashley, PR; Poker, DB; Hensley, DK
Title: Temperature effects on the fabrication of optical channels in planar GaAs/AlGaAs waveguides using MeV ions
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, Volume: 141 Issue:1-4 Pages: 704-708 MAY 1998
Times Cited: 0
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Record 42 of 49
Author(s): Magruder, RH; Weeks, RA; Zuhr, RA; Hensley, DK
Title: Effects of MeV implanted boron on the optical properties of silica
Source: JOURNAL OF NON-CRYSTALLINE SOLIDS, 222: 243-249 DEC 1997
Times Cited: 4
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Record 43 of 49
Author(s): Hensley, DK; Thomas, DK; Poker DB
Title: A Timeshared Foreline and Roughing Vacuum System
Source: OPERATION AND APPLICATION OF ELECTROSTATIC ACCELERATORS, Proceedings of the 31st Symposium of North Eastern Accelerator Personnel: 135-145 OCT 1997
Times Cited: 0
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Record 44 of 49
Author(s): Taylor, T; Ila, D; Zimmerman, RL; Ashley, PR; Poker, DB; Hensley, DK
Title: Optical changes induced in GaAs/AlGaAs waveguides by MeV ion bombardment
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 127: 442-445 MAY 1997
Times Cited: 0
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Record 45 of 49
Author(s): Magruder, RH; Zuhr, RA; Hensley, DK; Withrow, S
Title: Photosensitivity of B, Si and N implanted silica
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 127: 492-496 MAY 1997
Times Cited: 3
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Record 46 of 49
Author(s): Williams, EK; Ila, D; Sarkisov, S; Venkateswarlu, P; Poker, DB; Hensley, DK
Title: Loss measurements and stoichiometric dependence of Ti and O implanted LiNbO3 waveguides
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 127: 512-514 MAY 1997
Times Cited: 2
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Record 47 of 49
Author(s): Qian, Y; Ila, D; Zimmerman, RL; Poker, DB; Boatner, LA; Hensley, DK
Title: MeV silver ion implantation induced changes in optical properties of MgO (100)
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 127: 524-527 MAY 1997
Times Cited: 17
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Record 48 of 49
Author(s): Ila, D; Wu, Z; Smith, CC; Poker, DB; Hensley, DK; Klatt, C; Kalbitzer, S
Title: Post bombardment enhanced optical absorption in gold implanted silica
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 127: 570-573 MAY 1997
Times Cited: 20

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Record 49 of 49
Author(s): Evelyn, AL; Ila, D; Zimmerman, RL; Bhat, K; Poker, DB; Hensley, DK
Title: Resolving the electronic and nuclear effects of MeV ions in polymers
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, 127: 694-697 MAY 1997
Times Cited: 24

**Total Times Cited: 633**