

Вера Константиновна Адамчук



(1933 – 2016)

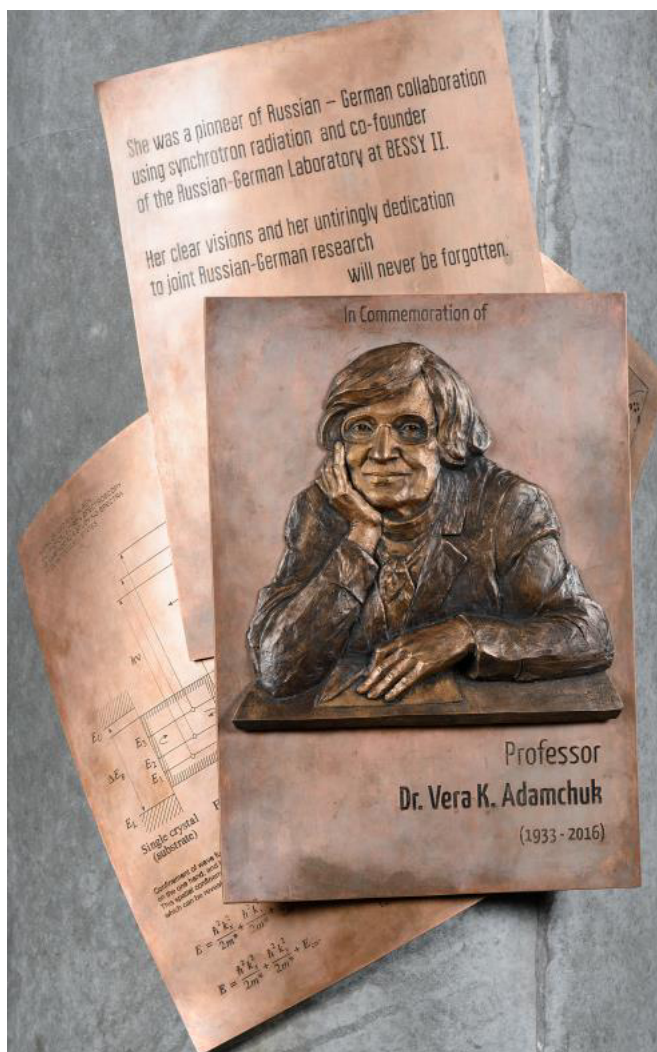
Не стало Веры Константиновны Адамчук, многолетнего сотрудника физического факультета СПбГУ, специалиста по электронной спектроскопии твердого тела. Этому научному направлению посвящены ее диссертации «Структура зон и фотоэлектрические свойства селенида кадмия в ультрафиолетовой области спектра» (к.ф.-м.н., 1969) и «Фотоэлектронная спектроскопия тонких слоев и межфазовых границ твердых тел» (д.ф.-м.н., 1984).

С 1988 до 2010 г. Вера Константиновна заведовала в СПбГУ лабораторией физической электроники, сыграла лидирующую роль в организации, в начале 1990х, российско-германской лаборатории синхротронного излучения (Russian-German Beam Line, RGBL [URL](#)) на накопителе Bessy в Берлине.



Вера Константиновна на заседании кафедры [URL](#)

Вот как сама Вера Константиновна определяла свои научные направления: (1) Оптическая и фотоэлектронная спектроскопия твердых тел с использованием синхротронного излучения, (2) фотоэлектронная спектроскопия границ полупроводник/диэлектрик, (3) Электронная структура гибридных материалов полимеры/неорганические наночастицы, (4) Электронная энергетическая и спиновая структура систем на основе графена.



Мемориальная доска в BESSY [URL](#)

Ниже в списке трудов **выделены три работы (1992 – обзор; 1998; 2015)**, которые она указывала как **главные** [URL](#) .

Обзоры

1. ADAMCHUK, VK; AFANAS'EV, VV.
INTERNAL PHOTOEMISSION SPECTROSCOPY OF SEMICONDUCTOR-INSULATOR INTERFACES
PROGRESS IN SURFACE SCIENCE 41(2), 111-211 (1992)
2. AFANAS'EV, VV; ADAMCHUK, VK.
INJECTION SPECTROSCOPY OF LOCALIZED STATES IN THIN INSULATING LAYERS ON
SEMICONDUCTOR SURFACES
PROGRESS IN SURFACE SCIENCE 47(4), 301-394 (1994)

Избранные статьи

3. ADAMCHUK, V.K.; DMITRIEV, A.B.; PRUDNIKOVA, G.V.; SOROKIN, L.S..
PHOTOIONIZATION OF LOW-VOLATILITY MOLECULES IN A GEIGER COUNTER
OPTICS AND SPECTROSCOPY 33(2), 191 (1972)
4. ADAMCHUK, VK; FEDOSEENKO, SI.
UTILIZATION OF PHOTOELECTRON-SPECTROSCOPY IN STUDYING THE FORMATION OF
CDS(CDSE, CDTE)-AU CONTACTS
ZHURNAL TEKHNICHESKOI FIZIKI 49(8), 1774 (1979)
5. ADAMCHUK, VK; DORODNEV, VN.
EFFECT OF SILICON ORIENTATION AND THE TECHNIQUE OF THERMAL-OXIDATION ON THE SI-
SIO₂ BARRIER ENERGIES
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA FIZIKA KHIMIYA (2), 19 (1979)
6. ADAMCHUK, VK; FEDOSEENKO, SI; SHIKIN, AM.
FORMATION OF THE ELECTRONIC-STRUCTURE OF AN SI-AU (111) BOUNDARY
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 46(7), 1328-1331 (1982)
7. ADAMCHUK, VK; PRUDNIKOVA, GV; SMIRNOV, AB; SHUBA, YA.
ZONE STRUCTURE OF COPPER IODIDE
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 46(7), 1332-1335 (1982)
8. ADAMCHUK, VK; AFANAS'EV, VV.
BAND-GAP DETERMINATION OF THERMAL SILICON DIOXIDE ON SILICON
FIZIKA TVERDOGO TELA 26(8), 2508-2510 (1984)
9. ADAMCHUK, V. K.; AFANAS'EV, V. V..
BARRIER ENERGY DETERMINATION AT THE SEMICONDUCTOR-INSULATOR INTERFACE
SOVIET JOURNAL OF PHYSICS, CHEMISTRY, AND MECHANICS OF SURFACES 4(10), 42 (1985)
10. ADAMCHUK, VK; AFANAS'EV, VV; LYUBINETSKII IV; SHIKIN, AM.
INVESTIGATION THE AU-SIO₂ BOUNDARY IN THE METAL-DIELECTRIC-SEMICONDUCTOR
SYSTEM
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 49(9), 1751-1754 (1985)
11. KUCHMA, AE; MOLODTSOV, SL; ADAMCHUK, VK.
INVESTIGATION OF PHOTOELECTRON SYSTEM EVOLUTION IN AN INSULATOR WITH
PHONON-SCATTERING TAKEN INTO ACCOUNT
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA FIZIKA KHIMIYA (3), 17-23 (1987)
12. ADAMCHUK, V.K.; AFANASYEV, V.V..
MEASUREMENT OF THE POTENTIAL BARRIER HEIGHT AT THE SEMICONDUCTOR-INSULATOR
INTERFACE
PHYSICS, CHEMISTRY AND MECHANICS OF SURFACES 4(10), 2977 (1987)
13. ADAMCHUK, VK; MOLODTSOV, SL; PRUDNIKOVA, GV.
ELECTRON-PHONON SCATTERING EFFECTS IN WIDE-GAP MATERIALS
FIZIKA TVERDOGO TELA 29(3), 832-837 (1987)
14. ADAMCHUK, VK; PRUDNIKOVA, GV; MOLODTSOV, SL.
EFFECT OF ELECTRON-PHONON SCATTERING ON PHOTOEMISSION-SPECTRUM LINE-SHAPE
OPTIKA I SPEKTROSKOPIYA 62(5), 1074-1078 (1987)

15. ADAMCHUK, VK; SMIRNOV, AB; PRUDNIKOVA, GV.
PHOTOELECTRON-SPECTROSCOPY OF CESIUM-IODIDE AND RUBIDIUM-IODIDE THIN-LAYERS
OPTIKA I SPEKTROSKOPIYA 62(6), 1306-1311 (1987)
16. ADAMCHUK, VK; LYUBINETSKII, IV.
CHARACTERISTICS OF PROCESSES OF THE INTERFACE FORMATION AFTER APPLICATION OF SILICON ON THE SURFACE OF PRECIOUS METALS
PISMA V ZHURNAL TEKHNIЧЕСKOI FIZIKI 13(24), 1494-1497 (1987)
17. ADAMCHUK, VK; AKULOV, AP; AFANASYEV, VV.
DEFECT GENERATION IN THIN SiO₂ LAYERS UNDER ION-BOMBARDMENT
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA FIZIKA KHIMIYA (2), 91-94 (1988)
18. ADAMCHUK, VK; ALESKOVSKII, VB; DROZD, VE; GUBAIDULLIN, VI; FEDOROV, AV;
ROMANYCHEV, AI.
DETECTION OF THE NATURE OF SUPERLATTICE-TYPE SOLID-BODY STRUCTURE AS OBTAINED BY THE METHOD OF CHEMICAL WELDING
DOKLADY AKADEMII NAUK SSSR 303(6), 1390-1392 (1988)
19. ADAMCHUK, VK; ALEKSANDROV, VM; ERMAKOV, AV; LYUBINETSKII, IV.
STUDY OF OPTICAL-SURFACES WITH THE HELP OF A SCANNING TUNNELING MICROSCOPE
PISMA V ZHURNAL TEKHNIЧЕСKOI FIZIKI 14(3), 256-259 (1988)
20. ADAMCHUK, VK; ERMAKOV, AV; LYUBINETSKII, IV.
SCANNING TUNNELING MICROSCOPE WITH ATOMIC RESOLUTION IN THE AIR
PISMA V ZHURNAL TEKHNIЧЕСKOI FIZIKI 14(8), 692-695 (1988)
21. ADAMCHUK, VK; LYUBINETSKY, IV.
INITIAL-STAGES OF SILICON NOBLE-METAL INTERFACES FORMATION
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 52(8), 1458-1461 (1988)
22. ADAMCHUK, V.K.; FEDOSEENKO, S.I.; SHIKIN, A.M..
THE EFFECT OF ELECTRON BACKSCATTERING IN AUGER ELECTRON STUDIES OF INTERFACE FORMATION
PHYSICS, CHEMISTRY AND MECHANICS OF SURFACES 4(12), 3598 (1989)
23. ADAMCHUK, VK; ERMAKOV, AV; LYUBINETSKII, IV; ZHITOMIRSKII, GA; PANICH, AE.
SCANNING TUNNELING MICROSCOPE BASED ON MONOLITHIC CROSS-SHAPED PIEZOELECTRIC ELEMENT
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 32(5), 1176-1179 (1989)
24. ADAMCHUK, VK; KUCHMA, AE; MOLODTSOV, SL.
EFFECTS OF LOW-ENERGY ELECTRON-TRANSPORT IN INSULATORS
PHYSICA STATUS SOLIDI B-BASIC RESEARCH 155(2), 525-533 (1989)
25. ADAMCHUK, VK; AFANAS'EV, VV; AKULOV, AP.
THE CHARGE AND TRAP GENERATION IN THIN SiO₂ LAYERS UNDER LOW-ENERGY ION-BOMBARDMENT
RADIATION EFFECTS AND DEFECTS IN SOLIDS 112(4), 189-193 (1990)
26. ADAMCHUK, VK; MOLODTSOV, SL; PRUDNIKOVA, GV.
VUV-SPECTROSCOPY OF SCATTERED ELECTRONS IN INSULATORS
PHYSICA SCRIPTA 41(4), 526-529 (1990)

27. ADAMCHUK, VK; SHIKIN, AM.
SI - NOBLE-METAL (AU, CU, AG) INTERFACE FORMATION STUDIES BY AES
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 52, 103-112 (1990)
28. ADAMCHUK, VK; KUCHMA, AE; MOLODTSOV, SL.
ANALYTICAL DESCRIPTION OF THE ELECTRIC-FIELD EFFECT ON THE ELECTRON-TRANSPORT IN SEMICONDUCTORS AND INSULATORS
PHYSICA STATUS SOLIDI B-BASIC RESEARCH 159(2), K77-K82 (1990)
29. ADAMCHUK, VK; AFANAS'EV, VV; AKULOV, AV.
ELECTRON TRAP ACTIVATION IN THERMAL SiO₂
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 122(1), 347-354 (1990)
30. MOLODTSOV, SL; PUSCHMANN, A; LAUBSCHAT, C; KAINDL, G; ADAMCHUK, VK.
COMPARATIVE-STUDY OF UNOCCUPIED ELECTRONIC STATES IN INSULATORS - CSI
PHYSICAL REVIEW B 44(3), 1333-1336 (1991)
31. ADAMCHUK, VK; FEDOROV, AV; SHIKIN, AM.
AUGER-ELECTRON SPECTROSCOPY OF LA THIN-FILMS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 55(12), 2294-2297 (1991)
32. 150. ADAMCHUK, VK; PRUDNIKOVA, GV; SHIKIN, AM.
THE STUDY OF Si ADSORPTION ON MgO THIN-LAYERS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 55(12), 2290-2293 (1991)
33. MOLODTSOV, SL; LAUBSCHAT, C; KAINDL, G; SHIKIN, AM; ADAMCHUK, VK.
FORMATION AND CHEMICAL-STRUCTURE OF THE Au/Si(111) INTERFACE
PHYSICAL REVIEW B 44(16), 8850-8857 (1991)
34. ADAMCHUK, VK; FEDOROV, AV; FEDOSEENKO, SI.
FORMATION OF RARE-EARTH SEMICONDUCTOR INTERFACES - Ho/CDSE(11(2)BAR-0),
Dy/CDSE(11(2)BAR-0), Gd/CDSE(11(2)BAR-0), Ho/CDS(11(2)BAR-0), AND Dy/CDS(11(2)BAR-0)
STUDIED BY AUGER-SPECTROSCOPY
SURFACE SCIENCE 269, 975-978 (1992)
35. SHIKIN, AM; PRUDNIKOVA, GV; ADAMCHUK, VK; MOLODTSOV, SL; GUTIERREZ, A; VANDRE, D;
KAINDL, G.
INITIAL-STAGES OF MgO/Si AND Si/MgO INTERFACE FORMATION
SURFACE SCIENCE 269, 1060-1065 (1992)
36. MOLODTSOV, SL; LAUBSCHAT, C; SHIKIN, AM; ADAMCHUK, VK.
EFFECTS OF ADATOM CONCENTRATION ON Au/Si(111) AND Si/Au INTERFACE FORMATION
SURFACE SCIENCE 269, 988-994 (1992)
37. ADAMCHUK, VK; ERMAKOV, AV; FEDOSEENKO, SI.
SCANNING TUNNELING MICROSCOPE WITH LARGE SCAN RANGE
ULTRAMICROSCOPY 42, 1602-1605 (1992)
38. ADAMCHUK, VK; ERMAKOV, AV.
DEVICE FOR DIRECT WRITING AND READING-OUT OF INFORMATION BASED ON THE
SCANNING TUNNELING MICROSCOPE
ULTRAMICROSCOPY 45(1), 1-4 (1992)
39. ADAMCHUK, VK; AFANAS'EV, VV.
PHOTOCHARGING TECHNIQUE FOR BARRIER DETERMINATION ON SEMICONDUCTOR

INSULATOR INTERFACES

- PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 132(2), 371-379 (1992)
40. MOLODTSOV, SL; LAUBSCHAT, C; KAINDL, G; ADAMCHUK, VK.
UNOCCUPIED DENSITY OF STATES IN SOLID XE FROM ELECTRON-PHONON SCATTERING SPECTROSCOPY
PHYSICAL REVIEW B 46(19), 12802-12805 (1992)
41. SHIKIN, AM; VYATKIN, AG; FEDOSEENKO, SI; ADAMCHUK, VK.
AES STUDY OF THE LA/SI INTERFACE WITH GOLD INTERLAYERS
APPLIED SURFACE SCIENCE 68(4), 481-483 (1993)
42. FEDOSEENKO, SI; ADAMCHUK, VK; AFANAS'EV, VV.
SILICON CLUSTERS AS PHOTOACTIVE TRAPS IN BURIED OXIDE LAYERS OF SIMOX STRUCTURES
MICROELECTRONIC ENGINEERING 22(1-4), 367-370 (1993)
43. MOLODTSOV, SL; PRIETSCH, M; LAUBSCHAT, C; KAINDL, G; FEDOROV, AV; ADAMCHUK, VK.
FORMATION OF THE HO/CDSE(10 OVER-BAR 10) INTERFACE
PHYSICAL REVIEW B 48(24), 17867-17871 (1993)
44. SHIKIN, AM; GOROVIKOV, SA; PRUDNIKOVA, GV; ADAMCHUK, VK.
ELECTRON-SPECTROSCOPY FOR CHEMICAL-STATE DIAGNOSTICS OF C-60, GRAPHITE AND THEIR LA-BASED COMPOUNDS
MOLECULAR CRYSTALS AND LIQUID CRYSTALS SCIENCE AND TECHNOLOGY SECTION C- MOLECULAR MATERIALS 4(1-3), 113-116 (1994)
45. FEDOROV, AV; HOHR, A; WESCHKE, E; STARKE, K; ADAMCHUK, VK; KAINDL, G.
PARTIALLY OCCUPIED SURFACE-STATE AT THE FERMI-LEVEL OF LA(0001)
PHYSICAL REVIEW B 49(7), 5117-5120 (1994)
46. SHIKIN, AM; PRUDNIKOVA, GV; FEDOROV, AV; ADAMCHUK, VK.
CHEMICAL-REACTIONS UNDER LANTHANUM ADSORPTION ONTO GRAPHITE AND FULLERITE SURFACE
SURFACE SCIENCE 307, 205-210 (1994)
47. PRUDNIKOVA, GV; VJATKIN, AG; ERMAKOV, AV; SHIKIN, AM; ADAMCHUK, VK.
SURFACE INTERCALATION OF GRAPHITE BY LANTHANUM
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 68, 427-430 (1994)
48. SHIKIN, AM; PRUDNIKOVA, GV; ADAMCHUK, VK.
ELECTRON-SPECTROSCOPY FOR DIAGNOSTICS OF VARIOUS SOLID CARBON PHASES
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 68, 413-418 (1994)
49. DOBROTVORSKII, AM; ADAMCHUK, VK.
MODELING OF ATOM MECHANISMS OF LOCAL DEFORMATION RELAXATIONS ON GOLD SURFACE
ZHURNAL TEKHNICHESKOI FIZIKI 64(8), 132-144 (1994)
50. SHIKIN, AM; GOROVIKOV, SA; PRUDNIKOVA, GV; ADAMCHUK, VK.
ELECTRON-SPECTROSCOPY FOR DIAGNOSTICS OF C60 THIN-LAYER FORMATION
IZVESTIYA AKADEMII NAUK SERIYA FIZICHESKAYA 58(10), 150-155 (1994)
51. SHIKIN, AM; GOROVIKOV, SA; PRUDNIKOVA, GV; MOLODTSOV, SL; ADAMCHUK, VK.
THE CHARACTERISTIC FEATURES OF LA INTERACTION WITH GRAPHITE SURFACE
IZVESTIYA AKADEMII NAUK SERIYA FIZICHESKAYA 58(10), 111-115 (1994)

52. SHIKIN, AM; MOLODTSOV, SL; LAUBSCHAT, C; KAINDL, G.
ELECTRONIC-STRUCTURE OF LA-INTERCALATED GRAPHITE
PHYSICAL REVIEW B 51(19), 13586-13591 (1995)
53. SHIKIN, AM; PRUDNIKOVA, GV; ADAMCHUK, VK; MOLODTSOV, SL; LAUBSCHAT, C; KAINDL, G.
PHOTOEMISSION-STUDY OF LA/FULLERITE AND LA/GRAPHITE INTERFACES
SURFACE SCIENCE 331, 517-521 (1995)
54. GOROVIKOV, SA; SHIKIN, AM; ADAMCHUK, VK.
STRUCTURE OF UNOCCUPIED STATES OF C-60 AND LA-FULLERIDE FROM DISAPPEARANCE
POTENTIAL SPECTROSCOPY NEAR C(1S) THRESHOLD EXCITATION
MOLECULAR CRYSTALS AND LIQUID CRYSTALS SCIENCE AND TECHNOLOGY SECTION C-
MOLECULAR MATERIALS 7(1-4), 119-122 (1996)
55. PRUDNIKOVA, GV; SHIKIN, AM; MOLODTSOV, SL; GOROVIKOV, SA; ADAMCHUK, VK.
ELECTRON SPECTROSCOPY OF LA-FULLERIDES
MOLECULAR CRYSTALS AND LIQUID CRYSTALS SCIENCE AND TECHNOLOGY SECTION C-
MOLECULAR MATERIALS 7(1-4), 123-126 (1996)
56. LYUBINETSKY, IV; ADAMCHUK, VK.
INTERFACE FORMATION DURING SILICON DEPOSITION ON NOBLE METAL SUBSTRATES: A
COMPARATIVE AES STUDY
THIN SOLID FILMS 288(1-2), 182-185 (1996)
57. SHIKIN, AM; PRUDNIKOV, GV; ADAMCHUK, VK; MOLODTSOV, SL; GANTZ, T; LAUBSCHAT, C.
ELECTRONIC STRUCTURE OF EU- AND YB-GRAPHITE INTERCALATION COMPOUNDS
PHYSICS OF LOW-DIMENSIONAL STRUCTURES 7, 79-92 (1997)
58. ADAMCHUK, VK; VYATKIN, AG; DOBROTVORSKII, AM; SHIKIN, AM; SHIROKOV, DV.
INVESTIGATION OF THE RELATIVE STABILITY OF SOLID PHASES IN THE LA-GRAPHITE SYSTEM
BASED ON THE METHOD OF MULTICENTER ATOM-ATOM POTENTIALS
PHYSICS OF THE SOLID STATE 39(10), 1681-1684 (1997)
59. ALEKSENSKII, AE; OSIPOV, VY; KRYUKOV, NA; ADAMCHUK, VK; ABAEV, MI; VUL', SP; VUL', AY.
OPTICAL PROPERTIES OF LAYERS OF ULTRADISPERSE DIAMOND OBTAINED FROM AN
AQUEOUS SUSPENSION
TECHNICAL PHYSICS LETTERS 23(11), 874-876 (1997)
60. SHIKIN, AM; ADAMCHUK, VK; SIEBENTRITT, S; RIEDER, KH.
HREELS-INVESTIGATION OF C-60/GRAPHITE INTERACTION
MOLECULAR CRYSTALS AND LIQUID CRYSTALS SCIENCE AND TECHNOLOGY SECTION C-
MOLECULAR MATERIALS 11(1-2), 87-90 (1998)
61. GRIGOR'EV, AY; SHIKIN, AM; PRUDNIKOVA, GV; GOROVIKOV, SA; ADAMCHUK, VK.
PROPERTIES OF THE INTERACTION OF EUROPIUM WITH SI(111) SURFACE
PHYSICS OF THE SOLID STATE 40(3), 519-523 (1998)
62. MOLODTSOV, SL; BOYSEN, J; RICHTER, M; SEGOVIA, P; LAUBSCHAT, C; GOROVIKOV, SA;
IONOV, AM; PRUDNIKOVA, GV; ADAMCHUK, VK.
DISPERSION OF 5F ELECTRON STATES: ANGLE-RESOLVED PHOTOEMISSION ON ORDERED
FILMS OF U METAL
PHYSICAL REVIEW B 57(20), 13241-13245 (1998)

63. ADAMCHUK V.K., MOLODTSOV S.L., GOROVIKOV S.A., IOSIFOV I.E. RUSSIAN-GERMAN PHOTOEMISSION BEAMLINE: DESIGN AND RESEARCH APPLICATION. X-RAY, SYNCHROTRON AND NEUTRON-TECHNIQUES., № 8-9, P.13-20 (1998)
64. ERMAKOV, AV; ADAMCHUK, VK.
ATOMIC FORCE TUNNELING MICROSCOPE AND ITS APPLICATION TO THE STUDY OF DIELECTRIC BREAKDOWN OF A DIAMOND FILM ON SILICON
TECHNICAL PHYSICS LETTERS 25(3), 200-202 (1999)
65. SHIKIN, AM; FARIAS, D; ADAMCHUK, VK; RIEDER, KH.
SURFACE PHONON DISPERSION OF A GRAPHITE MONOLAYER ADSORBED ON NI(111) AND ITS MODIFICATION CAUSED BY INTERCALATION OF YB, LA AND CU LAYERS
SURFACE SCIENCE 424(1), 155-167 (1999)
66. SHIKIN, AM; MOLODTSOV, SL; VYATKIN, AG; ADAMCHUK, VK; FRANCO, N; MARTIN, M; ASENSIO, MC.
ELECTRONIC STRUCTURE OF SURFACE COMPOUNDS FORMED UNDER THERMAL ANNEALING OF THE LA GRAPHITE INTERFACE
SURFACE SCIENCE 429(1-3), 287-297 (1999)
67. SHIKIN, AM; GOROVIKOV, SA; ADAMCHUK, VK; MOLODTSOV, S; ENGELMANN, P.
C 1S NEXAFS STUDY OF RARE-EARTH'S (LA, EU)-GRAPHITE INTERCALATION COMPOUNDS
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 105(1), 85-90 (1999)
68. SHIKIN, AM; DEDKOV, YS; ADAMCHUK, VK; FARIAS, D; RIEDER, KH.
MODIFICATION OF ELECTRONIC AND ATOMIC STRUCTURE UPON INTERCALATION OF C-60 MOLECULES UNDERNEATH A GRAPHITE MONOLAYER ON NI(111)
MOLECULAR MATERIALS 13(1-4), 177-182 (2000)
69. SHIKIN, AM; POIGIN, MV; DEDKOV, YS; MOLODTSOV, SL; ADAMCHUK, VK.
FORMATION OF INTERCALATE-LIKE SYSTEMS OF GRAPHITE-YTTERBIUM MONOLAYERS ON THE NI(111) SURFACE
PHYSICS OF THE SOLID STATE 42(6), 1170-1175 (2000)
70. SHIKIN, AM; GRIGOR'EV, AY; PRUDNIKOVA, GV; VYALYKH, DV; MOLODTSOV, SL; ADAMCHUK, VK.
INTERACTION OF THIN SILICON LAYERS WITH THE (0001) SURFACE OF RARE-EARTH METALS
PHYSICS OF THE SOLID STATE 42(5), 973-980 (2000)
71. SHIKIN, AM; ADAMCHUK, VK; SIEBENTRITT, S; RIEDER, KH; MOLODTSOV, SL; LAUBSCHAT, C.
FORMATION OF A SURFACE GRAPHITE MONOLAYER AND INTERCALATIONLIKE COMPOUND IN THE LA/GRAPHITE SYSTEM UNDER THERMAL ANNEALING
PHYSICAL REVIEW B 61(11), 7752-7759 (2000)
72. SHIKIN, AM; DEDKOV, YS; ADAMCHUK, VK; FARIAS, D; RIEDER, KH.
FORMATION OF AN INTERCALATION-LIKE SYSTEM BY INTERCALATION OF C-60 MOLECULES UNDERNEATH A GRAPHITE MONOLAYER ON NI(111)
SURFACE SCIENCE 452(1-3), 1-8 (2000)
73. FARIAS, D; RIEDER, KH; SHIKIN, AM; ADAMCHUK, VK; TANAKA, T; OSHIMA, C.
MODIFICATION OF THE SURFACE PHONON DISPERSION OF A GRAPHITE MONOLAYER ADSORBED ON NI(111) CAUSED BY INTERCALATION OF YB, CU AND AG
SURFACE SCIENCE 454, 437-441 (2000)

74. SHIKIN, AM; VYALIKH, DV; DEDKOV, YS; PRUDNIKOVA, GV; ADAMCHUK, VK; WESCHKE, E; KAINDL, G.
EXTENDED ENERGY RANGE OF AG QUANTUM-WELL STATES IN AG(111)/AU(111)/W(110)
PHYSICAL REVIEW B 62(4), R2303-R2306 (2000)
75. SHIKIN, AM; PRUDNIKOVA, GV; ADAMCHUK, VK; MORESCO, F; RIEDER, KH.
SURFACE INTERCALATION OF GOLD UNDERNEATH A GRAPHITE MONOLAYER ON NI(111)
STUDIED BY ANGLE-RESOLVED PHOTOEMISSION AND HIGH-RESOLUTION ELECTRON-
ENERGY-LOSS SPECTROSCOPY
PHYSICAL REVIEW B 62(19), 13202-13208 (2000)
76. GRIGOR'EV, AY; KRUPIN, OV; VYALYKH, DV; DEDKOV, YS; SHIKIN, AM; PRUDNIKOVA, GV;
ADAMCHUK, VK.
SILICON INTERACTION WITH THE (0001) SURFACE OF LA AND GD LAYERS
PHYSICS OF THE SOLID STATE 43(2), 380-385 (2001)
77. SHIKIN, AM; RADER, O; PRUDNIKOVA, GV; ADAMCHUK, VK; GUDAT, W.
QUANTUM WELL STATES OF SP- AND D-CHARACTER IN THIN AU AND AG FILMS ON W(110)
AND THEIR ANALYSIS IN THE FRAMEWORK OF THE SIMPLEST ATOMIC-LIMIT-
APPROXIMATION
PHYSICS OF LOW-DIMENSIONAL STRUCTURES 11-2, 61-71 (2001)
78. GOROVIKOV, SA; SHIKIN, AM; PRUDNIKOVA, GV; ADAMCHUK, VK; MOLODTSOV, SL;
LAUBSCHAT, C; IONOV, AM.
FORMATION OF SURFACE INTERCALATION COMPOUNDS AT GD(DY)/GRAPHITE INTERFACES
UNDER THERMAL ANNEALING
SURFACE SCIENCE 474(1-3), 98-106 (2001)
79. DEDKOV, YS; SHIKIN, AM; ADAMCHUK, VK; MOLODTSOV, SL; LAUBSCHAT, C; BAUER, A;
KAINDL, G.
INTERCALATION OF COPPER UNDERNEATH A MONOLAYER OF GRAPHITE ON NI(111)
PHYSICAL REVIEW B 64(3), - (2001)
80. SHIKIN, AM; VYALIKH, DV; PRUDNIKOVA, GV; ADAMCHUK, VK.
PHASE ACCUMULATION MODEL ANALYSIS OF QUANTUM WELL RESONANCES FORMED IN
ULTRA-THIN AG, AU FILMS ON W(110)
SURFACE SCIENCE 487(1-3), 135-145 (2001)
81. FEDOSEENKO, SI; IOSSIFOV, IE; GOROVIKOV, SA; SCHMIDT, JS; FOLLATH, R; MOLODTSOV, SL;
ADAMCHUK, VK; KAINDL, G.
DEVELOPMENT AND PRESENT STATUS OF THE RUSSIAN-GERMAN SOFT X-RAY BEAMLINE AT
BESSY II
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT 470(1-2), 84-88 (2001)
82. SOE, WH; SHIKIN, AM; MORESCO, F; ADAMCHUK, VK; RIEDER, KH.
HREELS INVESTIGATION OF GRAPHITE MONOLAYER STRIPES FORMED ON STEPPED NI(771)
PHYSICAL REVIEW B 64(23), - (2001)
83. VYALYKH, DV; SHIKIN, AM; PRUDNIKOVA, GV; GRIGOR'EV, AY; STARODUBOV, AG;
ADAMCHUK, VK.
QUANTUM-WELL STATES AND RESONANCES IN THIN SINGLE-CRYSTAL LAYERS OF NOBLE

- METALS ON W(110) SUBSTRATES
PHYSICS OF THE SOLID STATE 44(1), 164-170 (2002)
84. SHIKIN, AM; RADER, O; PRUDNIKOVA, GV; ADAMCHUK, VK; GUDAT, W.
QUANTUM WELL STATES OF SP- AND D-CHARACTER IN THIN AU OVERLAYERS ON W(110)
PHYSICAL REVIEW B 65(7), - (2002)
85. STARODUBOV, AG; MEDVETSKII, MA; SHIKIN, AM; PRUDNIKOVA, GV; ADAMCHUK, VK.
NOBLE-METAL INTERCALATION UNDER THE GRAPHITE MONOLAYER ON NI(111)
PHYSICS OF THE SOLID STATE 44(4), 681-682 (2002)
86. SHIKIN, AM; RADER, O; GUDAT, W; PRUDNIKOVA, GV; ADAMCHUK, VK.
QUANTUM-WELL STATES OF SP AND D CHARACTER IN ULTRATHIN EPITAXIAL AG AND AU
FILMS ON W(110)
SURFACE REVIEW AND LETTERS 9(2), 1375-1378 (2002)
87. SHIKIN, AM; PRUDNIKOVA, GV; ADAMCHUK, VK; SOE, WH; RIEDER, KH; MOLDOTSOV, SL;
LAUBSCHAT, C.
SYNTHESIS OF GRAPHITE MONOLAYER STRIPES ON A STEPPED NI(771) SURFACE
PHYSICS OF THE SOLID STATE 44(4), 677-680 (2002)
88. VINOGRADOV, AS; FEDOSEENKO, SI; VYALIKH, DV; MOLODTSOV, SL; ADAMCHUK, VK;
LAUBSCHAT, C; KAINDL, G.
HIGH RESOLUTION F1S ABSORPTION SPECTRA OF SOLID FLUORIDES OF 3D ELEMENTS
OPTICS AND SPECTROSCOPY 93(6), 862-869 (2002)
89. MOZHAYSKIY, VA; VARYKHALOV, AY; STARODOUBOV, AG; SHIKIN, AM; FEDOSEENKO, SI;
ADAMCHUK, VK.
FORMATION OF MONO-ATOMIC CARBON LAYERS ON NI(111) BY MEANS OF ORGANIC-GAS
CRACKING AND BY THERMAL DECOMPOSITION OF FULLERENES IN THIN FILM
PHYSICS OF LOW-DIMENSIONAL STRUCTURES 1-2, 105-114 (2003)
90. FEDOSEENKO, SI; VYALIKH, DV; IOSSIFOV, IE; FOLLATH, R; GOROVIKOV, SA; PUTTNER, R;
SCHMIDT, JS; MOLODTSOV, SL; ADAMCHUK, VK; GUDAT, W; KAINDL, G.
COMMISSIONING RESULTS AND PERFORMANCE OF THE HIGH-RESOLUTION RUSSIAN-
GERMAN BEAMLINE AT BESSY II
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT 505(3), 718-728 (2003)
91. SHIKIN, AM; GOROVIKOV, SA; ADAMCHUK, VK; GUDAT, W; RADER, O.
ELECTRONIC STRUCTURE OF CARBON NANOSTRIPES
PHYSICAL REVIEW LETTERS 90(25), - (2003)
92. VYALIKH, DV; WESCHKE, E; DEDKOV, YS; KAINDL, G; SHIKIN, AM; ADAMCHUK, VK.
QUANTUM-WELL STATES IN BILAYERS OF AG AND AU ON W(110)
SURFACE SCIENCE 540(2-3), L638-L642 (2003)
93. VYALIKH, DV; FEDOSEENKO, SI; IOSSIFOV, IE; FOLLATH, R; GOROVIKOV, SA; MOLODTSOV, SL;
SCHMIDT, JS; PUTTNER, R; ADAMCHUK, VK; GUDAT, W; KAINDL, G.
THE RUSSIAN-GERMAN SOFT X-RAY BEAMLINE AT BESSY II
SYNCHROTRON RADIATION INSTRUMENTATION 705, 309-311 (2004)
94. MOZHAYSKIY, VA; VARYKHALOV, AY; STARODOUBOV, AG; SHIKIN, AM; FEDOSEENKO, SI;
ADAMCHUK, VK.

- TWO ALTERNATIVE WAYS FOR FORMATION OF MONO-ATOMIC CARBON LAYER ON Ni(111): ORGANIC-GAS CRACKING AND THERMAL DECOMPOSITION OF FULLERENES IN THIN FILM FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES 12(1-2), 385-388 (2004)
95. STARODUBOV, AG; MEDVETSKII, MA; SHIKIN, AM; ADAMCHUK, VK.
INTERCALATION OF SILVER ATOMS UNDER A GRAPHITE MONOLAYER ON Ni(111)
PHYSICS OF THE SOLID STATE 46(7), 1340-1348 (2004)
96. SHIKIN, AM; VARYKHALOV, A; PRUDNIKOVA, GV; ADAMCHUK, VK; GUDAT, W; RADER, O.
PHOTOEMISSION FROM STEPPED W(110): INITIAL OR FINAL STATE EFFECT?
PHYSICAL REVIEW LETTERS 93(14), - (2004)
97. VINOGRADOV, AS; FEDOSEENKO, SI; KRASNIKOV, SA; PREOBRAJENSKI, AB; SIVKOV, VN;
VYALIKH, DV; MOLODTSOV, SL; ADAMCHUK, VK; LAUBSCHAT, C; KAINDL, G.
THE HYBRIDIZED M3D-F2P CHARACTER OF LOW-ENERGY UNOCCUPIED ELECTRON STATES IN
3D METAL FLUORIDES OBSERVED BY F 1S ABSORPTION
PHYSICA SCRIPTA T115, 510-512 (2005)
98. VINOGRADOV, AS; FEDOSEENKO, SI; KRASNIKOV, SA; PREOBRAJENSKI, AB; SIVKOV, VN;
VYALIKH, DV; MOLODTSOV, SL; ADAMCHUK, VK; LAUBSCHAT, C; KAINDL, G.
LOW-LYING UNOCCUPIED ELECTRONIC STATES IN 3D TRANSITION-METAL FLUORIDES
PROBED BY NEXAFS AT THE F 1S THRESHOLD -
PHYSICAL REVIEW B 71(4), - (2005)
99. SHIKIN, AM; VARYKHALOV, A; GOROVIKOV, SA; PRUDNIKOVA, GV; ADAMCHUK, VK; RIEDER,
KH; GUDAT, W; RADER, O.
PHOTOEMISSION FROM SURFACE-LOCALIZED STRUCTURES ON VICINAL SURFACES: INITIAL-
OR FINAL-STATE SUPERLATTICE EFFECT?
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 144, 625-628 (2005)
100. SHIKIN, AM; VARYKHALOV, A; ADAMCHUK, V; IONOV, A; BOZKO, SN; GUDAT, W; RADER, O.
QUANTUM-WELL STATES AND LATERAL SUPERLATTICE EFFECT IN Ag AND Au STRIPES ON
STEPPED W(145)
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 144, 341-343 (2005)
101. SHIKIN, AM; FEDOSEENKO, SI; ALIEV, IM; ADAMCHUK, VK; DANZENBACHER, S; MOLODTSOV,
SL.
RADIATION-STIMULATED MODIFICATION OF C-60 FILMS ON Si-OXIDE SURFACES
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA 148(3), 142-150 (2005)
102. VARYKHALOV, A; GUDAT, W; ADAMCHUK, VK; RADER, O.
MAGIC NUMBERS IN TWO-DIMENSIONAL SELF-ORGANIZATION OF C-60 MOLECULES
PHYSICAL REVIEW B 73(24), - (2006)
103. SHIKIN, AM; VISMAN, MB; VLADIMIROV, GG; ADAMCHUK, VK; RADER, O.
QUANTUM-WELL STATES IN Ag/W(100) AND THEIR SYMMETRIC EVOLUTION IN THE ATOMIC
LIMIT OF THICKNESS
SURFACE SCIENCE 600(13), 2681-2687 (2006)
104. ADAMCHUK, VK; VINOGRADOV, AS; VLADIMIROV, GG; MOLODTSOV, SL; PRUDNIKOVA, GV;
FEDOSEENKO, SI; SHIKIN, AM.
STUDY OF NANOSTRUCTURED MATERIALS BY OPTICAL AND PHOTOELECTRON

SPECTROSCOPY

CRYSTALLOGRAPHY REPORTS 51(5), 870-880 (2006)

- 105.** SENKOVSKIY, BV; VARYKHALOV, AY; SHIKIN, AM; ADAMCHUK, VK; RADER, O.
QUANTUM-WELL STATES IN A THIN AG FILM ON A NI(111) SUBSTRATE
PHYSICS OF THE SOLID STATE 48(10), 1974-1980 (2006)
- 106.** RYBKIN, AG; USACHEV, DY; VARYKHALOV, AY; SHIKIN, AM; ADAMCHUK, VK.
ELECTRONIC STRUCTURE OF GOLD NANOCCLUSERS ON OXIDIZED NI(755) SURFACE
PHYSICS OF THE SOLID STATE 49(5), 984-990 (2007)
- 107.** USACHEV, DY; SHIKIN, AM; VARYKHALOV, AY; ADAMCHUK, VK; RADER, O.
ANGLE-RESOLVED PHOTOELECTRON SPECTROSCOPY OF GEOMETRICALLY NONUNIFORM SURFACES
PHYSICS OF THE SOLID STATE 49(5), 949-957 (2007)
- 108.** VARYKHALOV, A; RADER, O; ADAMCHUK, VK; GUDAT, W; KOEL, BE; SHIKIN, AM.
OXIDATION OF AU ON VICINAL W(110): ROLE OF STEP EDGES AND FACETS
PHYSICAL REVIEW B 75(20), - (2007)
- 109.** MOZHAYSKIY, V; SLIPCHENKO, MN; ADAMCHUK, VK; VILESOV, AF.
USE OF HELIUM NANODROPLETS FOR ASSEMBLY, TRANSPORT, AND SURFACE DEPOSITION OF LARGE MOLECULAR AND ATOMIC CLUSTERS
JOURNAL OF CHEMICAL PHYSICS 127(9), - (2007)
- 110.** SHIKIN, AM; VARYKHALOV, A; PRUDNIKOVA, GV; USACHOV, D; ADAMCHUK, VK; YAMADA, Y; RILEY, JD; RADER, O.
ORIGIN OF SPIN-ORBIT SPLITTING FOR MONOLAYERS OF AU AND AG ON W(110) AND MO(110)
PHYSICAL REVIEW LETTERS 100(5), - (2008)
- 111.** SHIKIN, AM; ADAMCHUK, VK.
QUANTUM CONFINEMENT EFFECTS IN THIN METAL LAYERS ON THE SURFACE OF SINGLE CRYSTALS AND THEIR ANALYSIS
PHYSICS OF THE SOLID STATE 50(6), 1170-1185 (2008)
- 112.** USACHOV, D; DOBROTVORSKII, AM; VARYKHALOV, A; RADER, O; GUDAT, W; SHIKIN, AM; ADAMCHUK, VK.
EXPERIMENTAL AND THEORETICAL STUDY OF THE MORPHOLOGY OF COMMENSURATE AND INCOMMENSURATE GRAPHENE LAYERS ON NI SINGLE-CRYSTAL SURFACES
PHYSICAL REVIEW B 78(8), - (2008)
- 113.** RYBKIN, A.G.; SHIKIN, A.M.; ADAMCHUK, V.K..
SPECTRA OF QUANTUM STATES IN THIN METAL FILMS AND THEIR MODIFICATION: AL/W(110) SYSTEM
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 73(5), 683 (2009)
- 114.** USACHOV, D.YU.; DOBROTVORSKII, A.M.; SHIKIN, A.M.; ADAMCHUK, V.K.; VARYKHALOV, A.YU.; RADER, O.; GUDAT, W..
GRAPHENE MORPHOLOGY ON NI SINGLE-CRYSTAL SURFACES: EXPERIMENTAL AND THEORETICAL INVESTIGATION
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 73(5), 679 (2009)

115. VINOGRADOV, NA; MARCHENKO, DE; SHIKIN, AM; ADAMCHUK, VK; RADER, O.
SIZE EFFECTS IN ULTRATHIN MG/W(110) FILMS: QUANTUM ELECTRONIC STATES
PHYSICS OF THE SOLID STATE 51(1), 179-188 (2009)
116. SHIKIN, AM; VARYKHALOV, A; RADER, O; ADAMCHUK, VK; GUDAT, W.
QUANTUM-SIZE EFFECTS IN THE ELECTRONIC STRUCTURE OF LOW-DIMENSIONAL METALLIC
SYSTEMS
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 94(3), 449-453 (2009)
117. SHIKIN, AM; MARCHENKO, DE; VINOGRADOV, NA; PRUDNIKOVA, GV; RYBKIN, AG;
ADAMCHUK, VK; RADER, O.
ANALYSIS OF THE POSSIBILITY OF THE SPIN-ORBIT ORIGIN OF SURFACE STATE SPLITTING IN
THIN MG(0001) LAYERS ON W(110) AND MO(110)
PHYSICS OF THE SOLID STATE 51(3), 608-619 (2009)
118. MOLODTSOV, SL; FEDOSEENKO, SI; VYALIKH, DV; IOSSIFOV, IE; FOLLATH, R; GOROVIKOV, SA;
BRZHEZINSKAYA, MM; DEDKOV, YS; PUTTNER, R; SCHMIDT, JS; ADAMCHUK, VK; GUDAT, W;
KAINDL, G.
HIGH-RESOLUTION RUSSIAN-GERMAN BEAMLIN AT BESSY
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 94(3), 501-505 (2009)
119. SHIKIN, AM; ADAMCHUK, VK; RIEDER, KH.
FORMATION OF QUASI-FREE GRAPHENE ON THE NI(111) SURFACE WITH INTERCALATED CU,
AG, AND AU LAYERS
PHYSICS OF THE SOLID STATE 51(11), 2390-2400 (2009)
120. USACHOV, D; BRZHEZINSKAYA, M; SHIKIN, AM; ADAMCHUK, VK.
ELECTRONIC STRUCTURE OF PENTACENE ON NI(110): COMPARISON WITH GRAPHENE
FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES 18(4-6), 487-492 (2010)
121. USACHOV, D.YU.; ADAMCHUK, V.K.; DOBROTVORSKII, A.M.; SHIKIN, A.M.; VARYKHALOV,
A.YU.; RADER, O..
CARBON PHASES ON NICKEL SURFACES
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 74(1), 24 (2010)
122. ULYANOV, P.G.; USACHEV, D. YU; DOBROTVORSKII, A.M.; ADAMCHUK, V.K.; MASLIKOVA, E.I.;
SHEVYAKOVA, E.P.; BALIJ, K.S.; PUSHKO, S.V..
ATOMIC FORCE MICROSCOPY STUDIES OF GRAIN SUBSTRUCTURE IN CONSTRUCTION STEELS
VESTNIKSPBSU 4, 44 (2010)
123. RYBKIN, AG; USACHOV, DY; MARCHENKO, DE; SHIKIN, AM; ADAMCHUK, VK; VARYKHALOV,
AY; RADER, O.
FORMATION OF SPECTRA OF QUANTUM WELL STATES IN THIN AL LAYERS ON W(110)
JOURNAL OF SURFACE INVESTIGATION-X-RAY SYNCHROTRON AND NEUTRON TECHNIQUES
4(3), 401-404 (2010)
124. SHIKIN, AM; RYBKIN, AG; MARCHENKO, DE; USACHOV, DY; ADAMCHUK, VK; VARYKHALOV,
AY; RADER, O.
SUBSTRATE-INDUCED SPIN-ORBIT SPLITTING OF QUANTUM-WELL AND INTERFACE STATES IN
AU, AG, AND CU LAYERS OF DIFFERENT THICKNESSES ON W(110) AND MO(110) SURFACES
PHYSICS OF THE SOLID STATE 52(7), 1515-1525 (2010)

125. USACHOV, D; ADAMCHUK, VK; HABERER, D; GRUNEIS, A; SACHDEV, H; PREOBRAJENSKI, AB; LAUBSCHAT, C; VYALIKH, DV.
QUASIFREESTANDING SINGLE-LAYER HEXAGONAL BORON NITRIDE AS A SUBSTRATE FOR GRAPHENE SYNTHESIS
PHYSICAL REVIEW B 82(7), - (2010)
126. RYBKIN, AG; SHIKIN, AM; ADAMCHUK, VK; MARCHENKO, D; BISWAS, C; VARYKHALOV, A; RADER, O.
LARGE SPIN-ORBIT SPLITTING IN LIGHT QUANTUM FILMS: AL/W(110)
PHYSICAL REVIEW B 82(23), - (2010)
127. USACHEV, DY; DOBROTVORSKII, AM; VARYKHALOV, AY; RYBKIN, AG; ADAMCHUK, VK.
STRUCTURAL STABILITY OF STEPPED NICKEL SURFACES
PHYSICS OF THE SOLID STATE 53(6), 1277-1282 (2011)
128. SUKHANOVA, TE; ULYANOV, PG; VLADIMIROV, GG; FEDOSEENKO, SI; ADAMCHUK, VK; VALUEVA, SV; VOLKOV, AY; MATVEEVA, NA; BOROVIKOVA, LN.
MORPHOLOGY AND ELECTRONIC STRUCTURE OF PLATINUM-CONTAINING POLYMER NANOSYSTEMS
JOURNAL OF SURFACE INVESTIGATION-X-RAY SYNCHROTRON AND NEUTRON TECHNIQUES 5(3), 440-446 (2011)
129. SENKOVSKIY, BV; USACHOV, DY; FEDOROV, AV; ULYANOV, PG; YAROSLAVTSEV, AA; GRISHINA, OV; SHELYAKOV, AV; SITNIKOV, NN; MENUSHENKOV, AP; ADAMCHUK, VK.
FEATURES OF THE SURFACE LAYERS OF TINI-BASED ALLOY THIN RIBBONS
JOURNAL OF SURFACE INVESTIGATION 5(3), 582-586 (2011)
130. FEDOROV, AV; VARYKHALOV, AY; DOBROTVORSKII, AM; CHIKINA, AG; ADAMCHUK, VK; USACHOV, DY.
STRUCTURE OF GRAPHENE ON THE NI(110) SURFACE
PHYSICS OF THE SOLID STATE 53(9), 1952-1956 (2011)
131. HABERER, D; GIUSCA, CE; WANG, Y; SACHDEV, H; FEDOROV, AV; FARJAM, M; JAFARI, SA; VYALIKH, DV; USACHOV, D; LIU, XJ; TRESKE, U; GROBOSCH, M; VILKOV, O; ADAMCHUK, VK; IRLE, S; SILVA, SRP; KNUPFER, M; BUCHNER, B; GRUNEIS, A.
EVIDENCE FOR A NEW TWO-DIMENSIONAL C₄H-TYPE POLYMER BASED ON HYDROGENATED GRAPHENE
ADVANCED MATERIALS 23(39), 4497-+ (2011)
132. HABERER, D; PETACCIA, L; WANG, Y; QUIAN, H; FARJAM, M; JAFARI, SA; SACHDEV, H; FEDOROV, AV; USACHOV, D; VYALIKH, DV; LIU, X; VILKOV, O; ADAMCHUK, VK; IRLE, S; KNUPFER, M; BUCHNER, B; GRUNEIS, A.
ELECTRONIC PROPERTIES OF HYDROGENATED QUASI-FREE-STANDING GRAPHENE
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 248(11), 2639-2643 (2011)
133. USACHOV, D; VILKOV, O; GRUNEIS, A; HABERER, D; FEDOROV, A; ADAMCHUK, VK; PREOBRAJENSKI, AB; DUDIN, P; BARINOV, A; OEHZELT, M; LAUBSCHAT, C; VYALIKH, DV.
NITROGEN-DOPED GRAPHENE: EFFICIENT GROWTH, STRUCTURE, AND ELECTRONIC PROPERTIES
NANO LETTERS 11(12), 5401-5407 (2011)

134. UL'YANOV, P.G.; DOBROTVORSKII, A.M.; USACHEV, D.YU.; BORYGINA, K.I.; ADAMCHUK, V.K..
ATOMIC FORCE MICROSCOPY OF THE NANOSTRUCTURE OF METALS AND ALLOYS SUBJECTED
TO MECHANICAL AND THERMAL STRESSES
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 76(2), 149 (2012)
135. SENKOVSKIY, BV; USACHEV, DY; FEDOROV, AV; SHELYAKOV, AV; ADAMCHUK, VK.
EXPERIMENTAL VALENCE-BAND STUDY OF TI(NICU) ALLOYS WITH DIFFERENT COMPOSITIONS
AND CRYSTAL STRUCTURES
PHYSICS OF THE SOLID STATE 54(8), 1533-1538 (2012)
136. SENKOVSKIY, BV; USACHOV, DY; FEDOROV, AV; VILKOV, OY; SHELYAKOV, AV; ADAMCHUK,
VK.
ELECTRONIC STRUCTURE OF TI-NI ALLOYS: AN XPS AND NEXAFS STUDY
JOURNAL OF ALLOYS AND COMPOUNDS 537, 190-196 (2012)
137. USACHOV, D; FEDOROV, A; VILKOV, O; ADAMCHUK, VK; YASHINA, LV; BONDARENKO, L;
SARANIN, AA; GRUNEIS, A; VYALIKH, DV.
EXPERIMENTAL AND COMPUTATIONAL INSIGHT INTO THE PROPERTIES OF THE LATTICE-
MISMATCHED STRUCTURES: MONOLAYERS OF H-BN AND GRAPHENE ON IR(111)
PHYSICAL REVIEW B 86(15), - (2012)
138. SUKHANOVA, T. E.; VYLEGZHANINA, M. E.; VALUEVA, S. V.; BOROVIKOVA, L. N.; SMYSLOV, R.
YU.; KUTIN, A. A.; BORYGINA, K. I.; ADAMCHUK, V. K.; GELFOND, M. L..
ATOMIC-FORCE MICROSCOPY AND SPECTRAL CHARACTERISTICS OF HYBRID NANOSYSTEMS
FOR PHOTODYNAMIC THERAPY IN ONCOLOGY
JOURNAL OF SURFACE INVESTIGATION 7(4), 671 (2013)
139. SENKOVSKIY, B; USACHOV, D; CHIKINA, A; ULYANOV, P; SHELYAKOV, A; ADAMCHUK, VK.
XPS AND NEXAFS INVESTIGATION OF ELECTRONIC ENERGY STRUCTURE OF TI-NI AND TINI-CU
ALLOYS
EUROPEAN SYMPOSIUM ON MARTENSITIC TRANSFORMATIONS 738-739, 128-+ (2013)
140. ULYANOV, PG; USACHOV, DY; FEDOROV, AV; BONDARENKO, AS; SENKOVSKIY, BV; VYVENKO,
OF; PUSHKO, SV; BALIZH, KS; MALTCEV, AA; BORYGINA, KI; DOBROTVORSKII, AM;
ADAMCHUK, VK.
MICROSCOPY OF CARBON STEELS: COMBINED AFM AND EBSD STUDY
APPLIED SURFACE SCIENCE 267, 216-218 (2013)
141. RYBKINA, AA; RYBKIN, AG; FEDOROV, AV; USACHOV, DY; YACHMENEV, ME; MARCHENKO, DE;
VILKOV, OY; NELYUBOV, AV; ADAMCHUK, VK; SHIKIN, AM.
INTERACTION OF GRAPHENE WITH INTERCALATED AL: THE PROCESS OF INTERCALATION
AND SPECIFIC FEATURES OF THE ELECTRONIC STRUCTURE OF THE SYSTEM
SURFACE SCIENCE 609, 7-17 (2013)
142. USACHOV, DY; FEDOROV, AV; VILKOV, OY; SENKOVSKIY, BV; ADAMCHUK, VK;
ANDRYUSHECHKIN, BV; VYALIKH, DV.
SYNTHESIS AND ELECTRONIC STRUCTURE OF NITROGEN-DOPED GRAPHENE
PHYSICS OF THE SOLID STATE 55(6), 1325-1332 (2013)
143. RYBKINA, AA; RYBKIN, AG; ADAMCHUK, VK; MARCHENKO, D; VARYKHALOV, A; SANCHEZ-
BARRIGA, J; SHIKIN, AM.
THE GRAPHENE/AU/Ni INTERFACE AND ITS APPLICATION IN THE CONSTRUCTION OF A

- GRAPHENE SPIN FILTER
NANOTECHNOLOGY 24(29), - (2013)
- 144.** SUKHANOVA, T. E.; VALUEVA, S. V.; VYLEGZHANINA, M. E.; MATVEEVA, G. N.; KUTIN, A. A.; SOKOLOVA, M. P.; VOLKOV, A. YA.; ULYANOV, P. G.; ADAMCHUK, V. K..
HYBRID POLYMER NANOSYSTEMS BASED ON SELENIUM AND ZINC-SELENIDE
NANOPARTICLES: MORPHOLOGY, ELECTRONIC STRUCTURE, AND THERMODYNAMIC
PROPERTIES
JOURNAL OF SURFACE INVESTIGATION 8(3), 484 (2014)
- 145.** USACHOV, D; FEDOROV, A; VILKOV, O; SENKOVSKIY, B; ADAMCHUK, VK; YASHINA, LV;
VOLYKHOV, AA; FARJAM, M; VERBITSKIY, NI; GRUNEIS, A; LAUBSCHAT, C; VYALIKH, DV.
THE CHEMISTRY OF IMPERFECTIONS IN N-GRAPHENE
NANO LETTERS 14(9), 4982-4988 (2014)
- 146.** DOBROTVORSKII, AM; MASLIKOVA, EI; SHEVYAKOVA, EP; UL'YANOV, PG; USACHEV, DY;
SENKOVSKIY, BV; ADAMCHUK, VK; PUSHKO, SV; MAL'TSEV, AA; BALIZH, KS.
METALLOGRAPHIC STUDY OF CONSTRUCTION MATERIALS WITH ATOMIC FORCE
MICROSCOPY METHOD
INORGANIC MATERIALS 50(15), 1487-1494 (2014)
- 147.** VALUEVA, SV; SUKHANOVA, TE; SOKOLOVA, MP; MATVEEVA, GN; SEN'KOVSKAYA, KI; KUTIN,
AA; VOLKOV, AY; KIPPER, AI; NIKOLAEV, FA; ADAMCHUK, VK.
BIOGENIC SELENIUM-CONTAINING NANOSYSTEMS BASED ON POLYELECTROLYTE
COMPLEXES
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A 89(1), 92-98 (2015)
- 148.** MAKAROVA, AA; GRACHOVA, EV; NEUDACHINA, VS; YASHINA, LV; BLUHER, A; MOLODTSOV, SI;
MERTIG, M; EHRlich, H; ADAMCHUK, VK; LAUBSCHAT, C; VYALIKH, DV.
INSIGHT INTO BIO-METAL INTERFACE FORMATION IN VACUO: INTERPLAY OF S-LAYER PROTEIN
WITH COPPER AND IRON
SCIENTIFIC REPORTS 5, - (2015)
- 149.** USACHOV, D; FEDOROV, A; OTROKOV, MM; CHIKINA, A; VILKOV, O; PETUKHOV, A; RYBKIN,
AG; KOROTEEV, YM; CHULKOV, EV; ADAMCHUK, VK; GRUUEIS, A; LAUBSCHAT, C; VYALIKH,
DV.
OBSERVATION OF SINGLE-SPIN DIRAC FERMIONS AT THE GRAPHENE/FERROMAGNET
INTERFACE
NANO LETTERS 15(4), 2396-2401 (2015)
- 150.** USACHOV, DY; FEDOROV, AV; VILKOV, OY; EROFEEVSKAYA, AV; VOPILOV, AS; ADAMCHUK,
VK; VYALIKH, DV.
FORMATION AND LITHIUM DOPING OF GRAPHENE ON THE SURFACE OF COBALT SILICIDE
PHYSICS OF THE SOLID STATE 57(5), 1040-1047 (2015)
- 151.** USACHOV, DY; FEDOROV, AV; PETUKHOV, AE; VILKOV, OY; RYBKIN, AG; OTROKOV, MM;
ARNAU, A; CHULKOV, EV; YASHINA, LV; FARJAM, M; ADAMCHUK, VK; SENKOVSKIY, BV;
LAUBSCHAT, C; VYALIKH, DV.
EPITAXIAL B-GRAPHENE: LARGE-SCALE GROWTH AND ATOMIC STRUCTURE
ACS NANO 9(7), 7314-7322 (2015)

152. USACHOV, DY; FEDOROV, AV; VILKOV, OY; PETUKHOV, AE; RYBKIN, AG; ERNST, A; OTROKOV, MM; CHULKOV, EV; OGORODNIKOV, II; KUZNETSOV, MV; YASHINA, LV; KATAEV, EY; EROFEEVSKAYA, AV; VOROSHNIN, VY; ADAMCHUK, VK; LAUBSCHAT, C; VYALIKH, DV.
LARGE-SCALE SUBLATTICE ASYMMETRY IN PURE AND BORON-DOPED GRAPHENE
NANO LETTERS 16(7), 4535-4543 (2016)
153. VOLKOV, IL; SMIRNOVA, A; MAKAROVA, AA; REVEGUK, ZV; RAMAZANOV, RR; USACHOV, DY; ADAMCHUK, VK; KONONOV, AI.
DNA WITH IONIC, ATOMIC, AND CLUSTERED SILVER: AN XPS STUDY
JOURNAL OF PHYSICAL CHEMISTRY B 121(11), 2400-2406 (2017)