Arvo Kikas

List of Publications by Year in descending order

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ADVO KIKAS

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Mesoporous textured Fe-N-C electrocatalysts as highly efficient cathodes for proton exchange membrane fuel cells. Journal of Power Sources, 2022, 520, 230819. | 7.8 | 46 |
| 2 | Liquid-assisted grinding/compression: a facile mechanosynthetic route for the production of high-performing Co–N–C electrocatalyst materials. Green Chemistry, 2022, 24, 305-314. | 9.0 | 8 |
| 3 | Transition metal and nitrogen-doped mesoporous carbons as cathode catalysts for anion-exchange membrane fuel cells. Applied Catalysis B: Environmental, 2022, 306, 121113. | 20.2 | 42 |
| 4 | Nitrogen and Phosphorus Dual-Doped Silicon Carbide-Derived Carbon/Carbon Nanotube Composite for the Anion-Exchange Membrane Fuel Cell Cathode. ACS Applied Energy Materials, 2022, 5, 2949-2958. | 5.1 | 21 |
| 5 | Polypyrrole and Polythiophene Modified Carbon Nanotubeâ€Based Cathode Catalysts for Anion Exchange Membrane Fuel Cell. ChemElectroChem, 2022, 9, . | 3.4 | 9 |
| 6 | Cobalt-Containing Nitrogen-Doped Carbon Materials Derived from Saccharides as Efficient Electrocatalysts for Oxygen Reduction Reaction. Catalysts, 2022, 12, 568. | 3.5 | 3 |
| 7 | Characterisation of Novel Nitrogen Doped Reduced Graphene Oxide. ECS Transactions, 2022, 108, 99-109. | 0.5 | 0 |
| 8 | Electroreduction of oxygen on cobalt phthalocyanine-modified carbide-derived carbon/carbon nanotube composite catalysts. Journal of Solid State Electrochemistry, 2021, 25, 57-71. | 2.5 | 37 |
| 9 | Transition metal-containing nitrogen-doped nanocarbon catalysts derived from 5-methylresorcinol for anion exchange membrane fuel cell application. Journal of Colloid and Interface Science, 2021, 584, 263-274. | 9.4 | 50 |
| 10 | Transition metal phthalocyanine-modified shungite-based cathode catalysts for alkaline membrane fuel cell. International Journal of Hydrogen Energy, 2021, 46, 4365-4377. | 7.1 | 36 |
| 11 | Non-precious metal cathodes for anion exchange membrane fuel cells from ball-milled iron and nitrogen doped carbide-derived carbons. Renewable Energy, 2021, 167, 800-810. | 8.9 | 50 |
| 12 | Transition-Metal- and Nitrogen-Doped Carbide-Derived Carbon/Carbon Nanotube Composites as Cathode Catalysts for Anion-Exchange Membrane Fuel Cells. ACS Catalysis, 2021, 11, 1920-1931. | 11.2 | 85 |
| 13 | Multi-purpose heterogeneous catalyst material from an amorphous cobalt metal–organic framework. Materials Advances, 2021, 2, 4009-4015. | 5.4 | 6 |
| 14 | Bifunctional multi-metallic nitrogen-doped nanocarbon catalysts derived from 5-methylresorcinol. Electrochemistry Communications, 2021, 124, 106932. | 4.7 | 16 |
| 15 | Silicon carbide-derived carbon electrocatalysts dual doped with nitrogen and phosphorus for the oxygen reduction reaction in an alkaline medium. Electrochemistry Communications, 2021, 125, 106976. | 4.7 | 24 |
| 16 | Mesoporous iron-nitrogen co-doped carbon material as cathode catalyst for the anion exchange membrane fuel cell. Journal of Power Sources Advances, 2021, 8, 100052. | 5.1 | 43 |
| 17 | Synthesis and Characterization of Cobalt and Nitrogen Co-Doped Peat-Derived Carbon Catalysts for Oxygen Reduction in Acidic Media. Catalysts, 2021, 11, 715. | 3.5 | 6 |
| 18 | Bimetal Phthalocyanineâ€Modified Carbon Nanotubeâ€Based Bifunctional Catalysts for Zincâ€Air Batteries. ChemElectroChem, 2021, 8, 2662-2670. | 3.4 | 34 |

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|----|---|------|-----------|
| 19 | Atomic-layer design and properties of Pr-doped HfO2 thin films. Journal of Alloys and Compounds, 2021, 868, 159100. | 5.5 | 4 |
| 20 | Bifunctional Oxygen Electrocatalysis on Mixed Metal Phthalocyanine-Modified Carbon Nanotubes Prepared via Pyrolysis. ACS Applied Materials & Interfaces, 2021, 13, 41507-41516. | 8.0 | 65 |
| 21 | Iron and cobalt containing electrospun carbon nanofibre-based cathode catalysts for anion exchange membrane fuel cell. International Journal of Hydrogen Energy, 2021, 46, 31275-31287. | 7.1 | 30 |
| 22 | Oxygen reduction reaction on Pd nanoparticles supported on novel mesoporous carbon materials. Electrochimica Acta, 2021, 394, 139132. | 5.2 | 14 |
| 23 | Oxygen reduction reaction on Pd nanocatalysts prepared by plasma-assisted synthesis on different carbon nanomaterials. Nanotechnology, 2021, 32, 035401. | 2.6 | 8 |
| 24 | Multivariable oxygen sensing based on photoluminescence and photoconductivity of TiO2 nanoparticles. Sensors and Actuators B: Chemical, 2020, 303, 127236. | 7.8 | 6 |
| 25 | Electrocatalytic oxygen reduction reaction on iron phthalocyanine-modified carbide-derived carbon/carbon nanotube composite electrocatalysts. Electrochimica Acta, 2020, 334, 135575. | 5.2 | 50 |
| 26 | Impact of ball-milling of carbide-derived carbons on the generation of hydrogen peroxide via electroreduction of oxygen in alkaline media. Journal of Electroanalytical Chemistry, 2020, 878, 114690. | 3.8 | 19 |
| 27 | Electrospun Polyacrylonitrileâ€Đerived Co or Fe Containing Nanofibre Catalysts for Oxygen Reduction Reaction at the Alkaline Membrane Fuel Cell Cathode. ChemCatChem, 2020, 12, 4568-4581. | 3.7 | 31 |
| 28 | Effects of N and O groups for oxygen reduction reaction on one- and two-dimensional carbonaceous materials. Electrochimica Acta, 2020, 344, 136052. | 5.2 | 23 |
| 29 | Peat-derived carbon-based non-platinum group metal type catalyst for oxygen reduction and evolution reactions. Electrochemistry Communications, 2020, 113, 106700. | 4.7 | 12 |
| 30 | Nitrogen-doped carbide-derived carbon/carbon nanotube composites as cathode catalysts for anion exchange membrane fuel cell application. Applied Catalysis B: Environmental, 2020, 272, 119012. | 20.2 | 72 |
| 31 | Cobalt and Nitrogen Co-Doped Peat Derived Carbon Based Catalysts for Oxygen Reduction. ECS Transactions, 2020, 97, 605-613. | 0.5 | 1 |
| 32 | Platinum Sputtered on Nb-doped TiO ₂ Films Prepared by ALD: Highly Active and Durable Carbon-free ORR Electrocatalyst. Journal of the Electrochemical Society, 2020, 167, 164505. | 2.9 | 13 |
| 33 | Transition Metal-Containing Nitrogen-Doped Nanocarbons Derived from 5-Methylresorcinol for Anion Exchange Membrane Fuel Cell Application. ECS Meeting Abstracts, 2020, MA2020-02, 2361-2361. | 0.0 | 0 |
| 34 | The electronic structure of ionic liquids based on the TFSI anion: A gas phase UPS and DFT study. Journal of Molecular Liquids, 2019, 294, 111580. | 4.9 | 10 |
| 35 | Sulphur and nitrogen co-doped graphene-based electrocatalysts for oxygen reduction reaction in alkaline medium. Electrochemistry Communications, 2019, 109, 10603. | 4.7 | 46 |
| 36 | Effect of Ball-Milling on the Oxygen Reduction Reaction Activity of Iron and Nitrogen Co-doped Carbide-Derived Carbon Catalysts in Acid Media. ACS Applied Energy Materials, 2019, 2, 7952-7962. | 5.1 | 36 |

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|----|---|-----|-----------|
| 37 | UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. Journal of Electron Spectroscopy and Related Phenomena, 2016, 213, 11-16. | 1.7 | 4 |
| 38 | Study of the structural phase transformation of iron oxide nanoparticles from an Fe2+ ion source by precipitation under various synthesis parameters and temperatures. Materials Chemistry and Physics, 2015, 149-150, 473-479. | 4.0 | 37 |
| 39 | The benefit of the European User Community from transnational access to national radiation facilities. Journal of Synchrotron Radiation, 2014, 21, 638-639. | 2.4 | 2 |
| 40 | In Situ XPS Studies of Electrochemically Negatively Polarized Molybdenum Carbide Derived Carbon Double Layer Capacitor Electrode. Journal of the Electrochemical Society, 2013, 160, A1084-A1093. | 2.9 | 25 |
| 41 | Electronic structure of LBO and BBO as revealed by boron and oxygen RIXS spectra. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 32-37. | 1.7 | 1 |
| 42 | Structural and Magnetic Studies on Iron Oxide and Iron-Magnesium Oxide Thin Films Deposited Using Ferrocene and (Dimethylaminomethyl)ferrocene Precursors. ECS Journal of Solid State Science and Technology, 2013, 2, N45-N54. | 1.8 | 23 |
| 43 | Effect of different annealing temperatures and SiO ₂ /Si(100) substrate on the properties of nickel containing titania thin sol–gel films. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 953-965. | 1.8 | 10 |
| 44 | Vacuum ultraviolet and X-ray emission spectroscopy of anion and cation excitons in oxide crystals. Journal of Surface Investigation, 2012, 6, 100-105. | 0.5 | 1 |
| 45 | The sub-bandgap energy loss satellites in the RIXS spectra of beryllium compounds. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 366-370. | 1.7 | 2 |
| 46 | Effect of cobalt doping and annealing on properties of titania thin films prepared by sol–gel process. Applied Surface Science, 2011, 257, 6897-6907. | 6.1 | 31 |
| 47 | Physical and electrochemical characteristics of supercapacitors based on carbide derived carbon electrodes in aqueous electrolytes. Journal of Power Sources, 2011, 196, 4109-4116. | 7.8 | 94 |
| 48 | Combined luminescence and X-ray emission study of self-trapped excitons in oxides. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012088. | 0.6 | 2 |
| 49 | Electron spectroscopic study of passive oxide layer formation on Fe–19Cr–18Ni–1Al–TiC austenitic stainless steel. Journal of Electron Spectroscopy and Related Phenomena, 2010, 182, 108-114. | 1.7 | 6 |
| 50 | Influence of the heating temperature on the properties of nickel doped TiO2 films prepared by sol–gel method. Applied Surface Science, 2010, 256, 4538-4542. | 6.1 | 12 |
| 51 | Resonant inelastic x-ray scattering and UV–VUV luminescence at the Be 1s edge in BeO. Journal of Physics Condensed Matter, 2010, 22, 375505. | 1.8 | 2 |
| 52 | Pt coated Cr2O3 thin films for resistive gas sensors. Open Physics, 2009, 7, . | 1.7 | 3 |
| 53 | Surface analysis of spray deposited copper indium disulfide films. Thin Solid Films, 2008, 516, 7110-7115. | 1.8 | 42 |
| 54 | Substrate-induced effects in the creation and decay of potassium 2p core excitations in ultrathin films of KCl on copper. Journal of Physics Condensed Matter, 2008, 20, 145206. | 1.8 | 6 |

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| 55 | Effect of phase composition on X-ray absorption spectra of ZrO2 thin films. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 303-306. | 1.7 | 13 |
| 56 | Substrate-induced effects in the creation and decay of core excitations in ultrathin films of potassium chloride on copper. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 294-298. | 1.7 | 0 |
| 57 | Resonant inelastic X-ray scattering at the Be 1s edge in BeO. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 299-302. | 1.7 | 6 |
| 58 | XPS and AFM investigation of hafnium dioxide thin films prepared by atomic layer deposition on silicon. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 150-154. | 1.7 | 16 |
| 59 | Inner-shell excitation of intrinsic luminescence and resonantly excited X-ray fluorescence at Be 1s edge in oriented BeO crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 172-175. | 1.6 | 4 |
| 60 | Resonant inelastic X-ray scattering at the K edge of oxygen and fluorine in insulators. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 845-848. | 1.7 | 3 |
| 61 | Engineering structure and properties of hafnium oxide films by atomic layer deposition temperature. Thin Solid Films, 2005, 479, 1-11. | 1.8 | 36 |
| 62 | Insulating properties of ultrathin KF layers on Cu(100): Resonant Auger spectroscopy. Surface Science, 2005, 584, 49-54. | 1.9 | 8 |
| 63 | Resonant inelastic x-ray scattering at the F1sphotoabsorption edge in LiF: Interplay of excitonic and conduction states, and Stokes' doubling. Physical Review B, 2004, 70, . | 3.2 | 10 |
| 64 | Potential barrier effects in Cs 3d resonance photoemission of CsF. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 377-381. | 1.7 | 3 |
| 65 | Effects of precursors on nucleation in atomic layer deposition of HfO2. Applied Surface Science, 2004, 230, 292-300. | 6.1 | 39 |
| 66 | Limitations of the ionic model in describing core-hole decayÂmolecular versus crystalline KCl. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, L85-L91. | 1.5 | 15 |
| 67 | Na K PHOTOABSORPTION AND RESONANT KLL AUGER SPECTRA IN NaF AND NaCl. Surface Review and Letters, 2002, 09, 1303-1308. | 1.1 | 3 |
| 68 | Study of Thin Oxide Films by Electron, Ion and Synchrotron Radiation Beams. Mikrochimica Acta, 2002, 139, 165-169. | 5.0 | 13 |
| 69 | Core excitons in NaKphotoabsorption of NaF: Resonant Auger spectroscopy. Physical Review B, 2001, 64, . | 3.2 | 13 |
| 70 | Multi-atom resonant photoemission in transition metal chlorides. Solid State Communications, 2000, 115, 275-279. | 1.9 | 20 |
| 71 | Vibrationally selective resonant Auger spectroscopy in CO: evidence of the valence character of the 3s `Rydberg level'. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 267-275. | 1.5 | 6 |
| 72 | Resonant photoemission of CoCl2. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 745-749. | 1.7 | 6 |

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| 73 | Resonant auger spectra of TiO2 at Ti2p and O1s absorption edges. Journal of Electron Spectroscopy and Related Phenomena, 1998, 93, 193-199. | 1.7 | 14 |
| 74 | Angle-resolved spectator decay of vibrationally selected C 1s(2σ)â~12Ï€1 excited states in carbon monoxide. Journal of Electron Spectroscopy and Related Phenomena, 1998, 95, 25-36. | 1.7 | 12 |
| 75 | Continuum resonance in ethylene: Evidence from vibrationally resolved core photoionization. Physical Review A, 1998, 58, 1879-1884. | 2.5 | 28 |
| 76 | Influences from the C1sshape resonance on the vibrational progression in the Auger decay of CO. Physical Review A, 1998, 58, 2037-2042. | 2.5 | 19 |
| 77 | Auger decay of core-excited higher Rydberg states of carbon monoxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 4267-4278. | 1.5 | 14 |
| 78 | Vibrationally selective resonant Auger spectroscopy of the3pcore-to-Rydberg excitation in CO. Physical Review A, 1997, 56, 480-487. | 2.5 | 17 |
| 79 | The vibrationally resolved C 1s core photoelectron spectra of methane and ethane. Journal of Chemical Physics, 1997, 106, 1661-1668. | 3.0 | 69 |
| 80 | Collapse of Vibrational Structure in the Auger Resonant Raman Spectrum of CO by Frequency Detuning. Physical Review Letters, 1997, 79, 1451-1454. | 7.8 | 85 |
| 81 | Ti 2p and O 1s X-ray absorption of TiO2 polymorphs. Solid State Communications, 1997, 104, 199-203. | 1.9 | 105 |
| 82 | High-resolution study of the correlation satellites in photoelectron spectra of the rare gases. Journal of Electron Spectroscopy and Related Phenomena, 1996, 77, 241-266. | 1.7 | 116 |
| 83 | Siteâ€selective participator decay of coreâ€excited butadiene. Journal of Chemical Physics, 1996, 105, 10719-10724. | 3.0 | 15 |
| 84 | Interplay of atomic and solid-state effects in inner-shell-resonant photoelectron spectra. Physical Review B, 1996, 53, R5978-R5981. | 3.2 | 7 |
| 85 | Auger decay of the dissociating coreâ€excited states in the HCl and DCl molecules. Journal of Chemical Physics, 1996, 104, 4475-4480. | 3.0 | 51 |
| 86 | Auger and photoelectron spectra of K+ in solids at resonant 2p6 to 2p53d excitation. Journal of Electron Spectroscopy and Related Phenomena, 1995, 72, 127-131. | 1.7 | 5 |
| 87 | L23MM resonnant auger spectra of Mn in KMnF3. Journal of Electron Spectroscopy and Related Phenomena, 1995, 72, 113-117. | 1.7 | 1 |
| 88 | MNN resonant Auger spectra of Ce in CeCl3. Journal of Electron Spectroscopy and Related Phenomena, 1995, 72, 119-123. | 1.7 | 3 |
| 89 | 3d-Resonant photo- and auger emission of Ce in CeO2. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 583-587. | 1.7 | 1 |
| 90 | Appearance of crystal-field splitting in 2p-resonant electron spectra of K+ in ionic solids. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 589-594. | 1.7 | 3 |

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| 91 | NEXAFS of ionic solids as seen through resonant electron spectra. Physica B: Condensed Matter, 1995, 208-209, 47-48. | 2.7 | 1 |
| 92 | 2p-3dresonant Auger scattering byK+ions ofKMnF3without the influence of the crystal-field splitting. Physical Review B, 1995, 51, 3202-3205. | 3.2 | 6 |
| 93 | High-resolution photoelectron satellite spectrum of He excited by synchrotron radiation at 96.5 eV photon energy. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L293-L297. | 1.5 | 17 |
| 94 | K+LMMresonant Auger spectra of solid KF. Physical Review B, 1994, 50, 9079-9085. | 3.2 | 10 |
| 95 | M4,5N4,5N4,5Auger decay spectra of the resonantly excited 3d94fconfiguration of xenonlike ions in solids. Physical Review B, 1994, 49, 14836-14844. | 3.2 | 7 |
| 96 | Character of F core excitons in alkali fluorides studied by resonant Auger spectroscopy. Physical Review B, 1994, 49, 3116-3123. | 3.2 | 22 |
| 97 | Auger decay processes of resonantly excited 3dâ^'14f configuration of xenon-like ions in solids. Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 277-286. | 1.7 | 5 |
| 98 | Autoionization phenomena involving the 2p53d configuration of argon-like ions in ionic solids. Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 287-296. | 1.7 | 8 |
| 99 | Autoionization phenomena involving the 2p53dconfiguration of argonlike ions in ionic solids. Physical Review B, 1993, 47, 11736-11748. | 3.2 | 61 |
| 100 | Auger Decay of K+L23Excitations in Potassium Halides. Physica Scripta, 1992, T41, 237-240. | 2.5 | 5 |
| 101 | Probing of electron-phonon scattering in ionic solids by XUV-induced electron emission spectroscopy. Surface Science, 1992, 269-270, 583-589. | 1.9 | 2 |
| 102 | Auger Transitions as Luminescence Killers in Ionic Solids. Physica Scripta, 1992, T41, 19-22. | 2.5 | 1 |
| 103 | Monte Carlo simulation of the cross-luminescence excitation spectrum in a CsBr crystal. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 308, 211-214. | 1.6 | 2 |
| 104 | Auger Spectra of K ⁺ <i>L</i> ₂₃ Excitations in Potassium Halides. Europhysics Letters, 1991, 15, 683-686. | 2.0 | 9 |
| 105 | Secondary photoelectron spectra of NaCl and KBr excited by XUV radiation: Experiments and computer simulations. Solid State Communications, 1990, 76, 1383-1386. | 1.9 | 4 |
| 106 | Monte Carlo simulation of the crossluminescence excitation spectrum in a CSBR crystal. Solid State Communications, 1990, 76, 1313-1316. | 1.9 | 10 |
| 107 | Monte Carlo Simulation of Electron–Phonon Scattering in the XUVâ€Induced Electron Emission of NaCl. Physica Status Solidi (B): Basic Research, 1986, 137, 495-500 | 1.5 | 15 |
| 108 | Monte Carlo Simulation of the Production of Charge Carriers in NaCl Crystals by XUV Irradiation. Physica Status Solidi (B): Basic Research, 1985, 130, 211-218. | 1.5 | 14 |

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| 109 | The quantum yield spectra of electron emission of solids in XUV region. Physica Status Solidi (B): Basic Research, 1982, 114, 487-493. | 1.5 | 9 |