# Sonia Estrade

## List of Publications by Citations

**Source:** https://exaly.com/author-pdf/3995406/sonia-estrade-publications-by-citations.pdf
**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| | | | |
|---|---|---|---|
| 170 papers | 4,336 citations | 34 h-index | 59 g-index |
| 174 ext. papers | 4,785 ext. citations | 5.3 avg, IF | 4.9 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 170 | Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. *Physical Review B*, **2009**, 80, | 3.3 | 399 |
| 169 | Learning from nature to improve the heat generation of iron-oxide nanoparticles for magnetic hyperthermia applications. *Scientific Reports*, **2013**, 3, 1652 | 4.9 | 369 |
| 168 | Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. *Nature Communications*, **2013**, 4, 2960 | 17.4 | 132 |
| 167 | Nucleation and growth of GaN nanorods on Si (111) surfaces by plasma-assisted molecular beam epitaxy - The influence of Si- and Mg-doping. *Journal of Applied Physics*, **2008**, 104, 034309 | 2.5 | 127 |
| 166 | GdBaCo2O5+x layered perovskite as an intermediate temperature solid oxide fuel cell cathode. *Journal of Power Sources*, **2007**, 174, 255-263 | 8.9 | 120 |
| 165 | Orientation and phase mapping in the transmission electron microscope using precession-assisted diffraction spot recognition: state-of-the-art results. *Journal of Microscopy*, **2013**, 252, 23-34 | 1.9 | 102 |
| 164 | Formation of size-controlled silicon nanocrystals in plasma enhanced chemical vapor deposition grown SiOxNy/SiO2 superlattices. *Thin Solid Films*, **2011**, 520, 121-125 | 2.2 | 102 |
| 163 | Size-dependent passivation shell and magnetic properties in antiferromagnetic/ferrimagnetic core/shell MnO nanoparticles. *Journal of the American Chemical Society*, **2010**, 132, 9398-407 | 16.4 | 100 |
| 162 | Elastic and orbital effects on thickness-dependent properties of manganite thin films. *Physical Review B*, **2007**, 76, | 3.3 | 87 |
| 161 | Ferromagnetism in transparent thin films of MgO. *Physical Review B*, **2010**, 82, | 3.3 | 84 |
| 160 | Selectable spontaneous polarization direction and magnetic anisotropy in BiFeO3-CoFe2O4 epitaxial nanostructures. *ACS Nano*, **2010**, 4, 4955-61 | 16.7 | 81 |
| 159 | Triple-twin domains in Mg doped GaN wurtzite nanowires: structural and electronic properties of this zinc-blende-like stacking. *Nanotechnology*, **2009**, 20, 145704 | 3.4 | 80 |
| 158 | Surface Reactivity of Iron Oxide Nanoparticles by Microwave-Assisted Synthesis; Comparison with the Thermal Decomposition Route. *Journal of Physical Chemistry C*, **2012**, 116, 15108-15116 | 3.8 | 77 |
| 157 | Influence of the (111) twinning on the formation of diamond cubic/diamond hexagonal heterostructures in Cu-catalyzed Si nanowires. *Journal of Applied Physics*, **2008**, 104, 064312 | 2.5 | 77 |
| 156 | Tetravalent manganese feroxyhyte: a novel nanoadsorbent equally selective for As(III) and As(V) removal from drinking water. *Environmental Science & Technology*, **2013**, 47, 9699-705 | 10.3 | 72 |
| 155 | Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn(x)Fe(3-x)O4/Fe(x)Mn(3-x)O4, core/shell heterostructured nanoparticles. *Nanoscale*, **2012**, 4, 5138-47 | 7.7 | 66 |
| 154 | Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe3O4 nanoparticles as a case study. *Nanoscale*, **2015**, 7, 3002-15 | 7.7 | 63 |

| | | | |
|---|---|---|---|
| 153 | Band engineered epitaxial 3D GaN-InGaN core-shell rod arrays as an advanced photoanode for visible-light-driven water splitting. *ACS Applied Materials & Interfaces*, **2014**, 6, 2235-40 | 9.5 | 61 |
| 152 | Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. *Nanotechnology*, **2009**, 20, 155602 | 3.4 | 58 |
| 151 | Seeded Growth Synthesis of Au-Fe3O4 Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. *Chemistry of Materials*, **2017**, 29, 4022-4035 | 9.6 | 53 |
| 150 | 3D Visualization of the Iron Oxidation State in FeO/Fe3O4 Core-Shell Nanocubes from Electron Energy Loss Tomography. *Nano Letters*, **2016**, 16, 5068-73 | 11.5 | 47 |
| 149 | Voltage-Controlled ON-OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. *ACS Nano*, **2018**, 12, 10291-10300 | 16.7 | 47 |
| 148 | Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. *Applied Physics A: Materials Science and Processing*, **2010**, 100, 287-296 | 2.6 | 46 |
| 147 | Defect Formation in Ga-Catalyzed Silicon Nanowires. *Crystal Growth and Design*, **2010**, 10, 1534-1543 | 3.5 | 42 |
| 146 | Precise Size Control of the Growth of FeO Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. *ACS Nano*, **2019**, 13, 7716-7728 | 16.7 | 41 |
| 145 | Selective area growth of a- and c-plane GaN nanocolumns by molecular beam epitaxy using colloidal nanolithography. *Journal of Crystal Growth*, **2012**, 353, 1-4 | 1.6 | 41 |
| 144 | Direct evidence for an interdiffused intermediate layer in bi-magnetic core-shell nanoparticles. *Nanoscale*, **2014**, 6, 11911-20 | 7.7 | 39 |
| 143 | Effects of thickness on the cation segregation in epitaxial (001) and (110) La2/3Ca1/3MnO3 thin films. *Applied Physics Letters*, **2009**, 95, 072507 | 3.4 | 39 |
| 142 | Multiple strain-induced phase transitions in LaNiO3 thin films. *Physical Review B*, **2016**, 94, | 3.3 | 38 |
| 141 | Absence of quantum confinement effects in the photoluminescence of Si3N4-embedded Si nanocrystals. *Journal of Applied Physics*, **2014**, 115, 204301 | 2.5 | 36 |
| 140 | Determining the crystalline degree of silicon nanoclusters/SiO2 multilayers by Raman scattering. *Journal of Applied Physics*, **2014**, 115, 203504 | 2.5 | 36 |
| 139 | Oxide Wizard: an EELS application to characterize the white lines of transition metal edges. *Microscopy and Microanalysis*, **2014**, 20, 698-705 | 0.5 | 35 |
| 138 | Resolving material-specific structures within FeO-MnO core\|shell nanoparticles using anomalous small-angle X-ray scattering. *ACS Nano*, **2013**, 7, 921-31 | 16.7 | 35 |
| 137 | Cationic and charge segregation in La2/3Ca1/3MnO3 thin films grown on (001) and (110) SrTiO3. *Applied Physics Letters*, **2008**, 93, 112505 | 3.4 | 35 |
| 136 | Synthesis, Characterization, and Humidity Detection Properties of Nb2O5 Nanorods and SnO2/Nb2O5 Heterostructures. *Journal of Physical Chemistry C*, **2013**, 117, 10086-10094 | 3.8 | 34 |

| | | | |
|---|---|---|---|
| 135 | Silicon nanocrystals in carbide matrix. *Solar Energy Materials and Solar Cells*, **2014**, 128, 138-149 | 6.4 | 33 |
| 134 | Distinguishing the core from the shell in MnO(x)/MnO(y) and FeO(x)/MnO(x) core/shell nanoparticles through quantitative electron energy loss spectroscopy (EELS) analysis. *Micron*, **2012**, 43, 30-6 | 2.3 | 33 |
| 133 | Studies on Surface Facets and Chemical Composition of Vapor Grown One-Dimensional Magnetite Nanostructures. *Crystal Growth and Design*, **2009**, 9, 1077-1081 | 3.5 | 33 |
| 132 | Sphericity and roundness computation for particles using the extreme vertices model. *Journal of Computational Science*, **2019**, 30, 28-40 | 3.4 | 33 |
| 131 | Influence of the particle morphology on the Cold Gas Spray deposition behaviour of titanium on aluminum light alloys. *Journal of Alloys and Compounds*, **2013**, 554, 89-96 | 5.7 | 32 |
| 130 | EEL spectroscopic tomography: towards a new dimension in nanomaterials analysis. *Ultramicroscopy*, **2012**, 122, 12-8 | 3.1 | 32 |
| 129 | Strain-induced stabilization of new magnetic spinel structures in epitaxial oxide heterostructures. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 144, 43-48 | 3.1 | 30 |
| 128 | A new approach for 3D reconstruction from bright field TEM imaging: beam precession assisted electron tomography. *Ultramicroscopy*, **2011**, 111, 1504-11 | 3.1 | 29 |
| 127 | High-temperature anion and proton conduction in RE3NbO7 (RE = La, Gd, Y, Yb, Lu) compounds. *Journal of the European Ceramic Society*, **2015**, 35, 3051-3061 | 6 | 27 |
| 126 | High-temperature long-term stable ordered mesoporous NiCGO as an anode for solid oxide fuel cells. *Journal of Materials Chemistry A*, **2013**, 1, 4531 | 13 | 26 |
| 125 | Structural and optical properties of size controlled Si nanocrystals in Si3N4 matrix: The nature of photoluminescence peak shift. *Journal of Applied Physics*, **2013**, 114, 184311 | 2.5 | 26 |
| 124 | High Electrocatalytic Response of a Mechanically Enhanced NbC Nanocomposite Electrode Toward Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 30872-30879 | 9.5 | 25 |
| 123 | High quality InAlN single layers lattice-matched to GaN grown by molecular beam epitaxy. *Applied Physics Letters*, **2011**, 99, 031103 | 3.4 | 25 |
| 122 | Dense nanostructured calcium phosphate coating on titanium by cold spray. *Journal of the European Ceramic Society*, **2017**, 37, 1747-1755 | 6 | 24 |
| 121 | Single crystalline and core-shell indium-catalyzed germanium nanowires-a systematic thermal CVD growth study. *Nanotechnology*, **2009**, 20, 245608 | 3.4 | 24 |
| 120 | A New Alternative for Obtaining Nanocrystalline Bioactive Coatings: Study of Hydroxyapatite Deposition Mechanisms by Cold Gas Spraying. *Journal of the American Ceramic Society*, **2016**, 99, 1420-1428 | 3.8 | 23 |
| 119 | Galvanic Replacement onto Complex Metal-Oxide Nanoparticles: Impact of Water or Other Oxidizers in the Formation of either Fully Dense Onion-like or Multicomponent Hollow MnOx/FeOx Structures. *Chemistry of Materials*, **2016**, 28, 8025-8031 | 9.6 | 22 |
| 118 | Annealing temperature and barrier thickness effect on the structural and optical properties of silicon nanocrystals/SiO2 superlattices. *Journal of Applied Physics*, **2014**, 116, 133505 | 2.5 | 22 |

| | | | |
|---|---|---|---|
| 117 | Local Structure of Rare Earth Niobates (RE3NbO7, RE = Y, Er, Yb, Lu) for Proton Conduction Applications?. *Fuel Cells*, **2013**, 13, 29-33 | 2.9 | 22 |
| 116 | Limit to the erbium ions emission in silicon-rich oxide films by erbium ion clustering. *Optical Materials Express*, **2012**, 2, 1278 | 2.6 | 21 |
| 115 | Untangling Electrostatic and Strain Effects on the Polarization of Ferroelectric Superlattices. *Advanced Functional Materials*, **2016**, 26, 6446-6453 | 15.6 | 20 |
| 114 | Insights into Interfacial Changes and Photoelectrochemical Stability of In(x)Ga(1-x)N (0001) Photoanode Surfaces in Liquid Environments. *ACS Applied Materials & Interfaces*, **2016**, 8, 8232-8 | 9.5 | 20 |
| 113 | Distinct magnetism in ultrathin epitaxial NiFe2O4 films on MgAl2O4 and SrTiO3 single crystalline substrates. *Physical Review B*, **2011**, 84, | 3.3 | 19 |
| 112 | Effectiveness of nitrogen incorporation to enhance the photoelectrochemical activity of nanostructured TiO2:NH3 versus H2-N2 annealing. *Nanotechnology*, **2011**, 22, 235403 | 3.4 | 19 |
| 111 | Optoelectronic properties of InAlN/GaN distributed bragg reflector heterostructure examined by valence electron energy loss spectroscopy. *Microscopy and Microanalysis*, **2012**, 18, 1143-54 | 0.5 | 19 |
| 110 | Fast-ADT: A fast and automated electron diffraction tomography setup for structure determination and refinement. *Ultramicroscopy*, **2020**, 211, 112951 | 3.1 | 18 |
| 109 | Structural, optical and electrical properties of silicon nanocrystals embedded in SixC1-x/SiC multilayer systems for photovoltaic applications. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2013**, 178, 639-644 | 3.1 | 18 |
| 108 | Ultraviolet Raman scattering in ZnO nanowires: quasimode mixing and temperature effects. *Journal of Raman Spectroscopy*, **2011**, 42, 153-159 | 2.3 | 18 |
| 107 | InAlN/GaN Bragg reflectors grown by plasma-assisted molecular beam epitaxy. *Journal of Applied Physics*, **2010**, 108, 113117 | 2.5 | 18 |
| 106 | Gadolinium doped Ceria nanocrystals synthesized from mesoporous silica. *Journal of Nanoparticle Research*, **2008**, 10, 369-375 | 2.3 | 18 |
| 105 | Synthesis and Thermoelectric Properties of Noble Metal Ternary Chalcogenide Systems of Ag4Au5Se in the Forms of Alloyed Nanoparticles and Colloidal Nanoheterostructures. *Chemistry of Materials*, **2016**, 28, 7017-7028 | 9.6 | 18 |
| 104 | Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions. *ACS Applied Materials & Interfaces*, **2016**, 8, 4109-17 | 9.5 | 17 |
| 103 | High-surface-area ordered mesoporous oxides for continuous operation in high temperature energy applications. *Journal of Materials Chemistry A*, **2014**, 2, 3134 | 13 | 17 |
| 102 | Boron doping of silicon rich carbides: Electrical properties. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2013**, 178, 551-558 | 3.1 | 16 |
| 101 | Engineering Transport in Manganites by Tuning Local Nonstoichiometry in Grain Boundaries. *Advanced Materials*, **2019**, 31, e1805360 | 24 | 16 |
| 100 | Assessing Oxygen Vacancies in Bismuth Oxide through EELS Measurements and DFT Simulations. *Journal of Physical Chemistry C*, **2017**, 121, 24809-24815 | 3.8 | 15 |

| | | | |
|---|---|---|---|
| 99 | Hantzsch dihydropyridines: Privileged structures for the formation of well-defined gold nanostars. *Journal of Colloid and Interface Science*, **2015**, 453, 260-269 | 9.3 | 15 |
| 98 | Independent Tuning of Optical Transparency Window and Electrical Properties of Epitaxial SrVO3 Thin Films by Substrate Mismatch. *Advanced Functional Materials*, **2019**, 29, 1904238 | 15.6 | 15 |
| 97 | Silicon nanocrystals in SiNx/SiO2 hetero-superlattices: The loss of size control after thermal annealing. *Journal of Applied Physics*, **2014**, 115, 244304 | 2.5 | 15 |
| 96 | Cationic diffusion in La2−Ca1−MnO3 thin films grown on LaAlO3 (001) substrates. *Applied Physics Letters*, **2007**, 91, 252503 | 3.4 | 15 |
| 95 | Insights into interface and bulk defects in a high efficiency kesterite-based device. *Energy and Environmental Science*, **2021**, 14, 507-523 | 35.4 | 15 |
| 94 | Tuning Branching in Ceria Nanocrystals. *Chemistry of Materials*, **2017**, 29, 4418-4424 | 9.6 | 14 |
| 93 | Retrieving the electronic properties of silicon nanocrystals embedded in a dielectric matrix by low-loss EELS. *Nanoscale*, **2014**, 6, 14971-83 | 7.7 | 14 |
| 92 | Long-range order of Ni2+ and Mn4+ and ferromagnetism in multiferroic (Bi0.9La0.1)2NiMnO6 thin films. *Journal of Applied Physics*, **2010**, 108, 123907 | 2.5 | 14 |
| 91 | Growth and magnetic characterization of Co nanoparticles obtained by femtosecond pulsed laser deposition. *Physical Review B*, **2009**, 79, | 3.3 | 14 |
| 90 | Epitaxial growth of biferroic YMnO3(0 0 0 1) on platinum electrodes. *Journal of Crystal Growth*, **2007**, 299, 288-294 | 1.6 | 14 |
| 89 | Luminescence properties of Ce3+ and Tb3+ co-doped SiOxNy thin films: Prospects for color tunability in silicon-based hosts. *Journal of Applied Physics*, **2016**, 119, 113108 | 2.5 | 14 |
| 88 | Simulation of STEM-HAADF Image Contrast of Ruddlesden−Popper Faulted LaNiO3 Thin Films. *Journal of Physical Chemistry C*, **2017**, 121, 9300-9304 | 3.8 | 13 |
| 87 | Facile and Efficient Atomic Hydrogenation Enabled Black TiO2 with Enhanced Photo-Electrochemical Activity via a Favorably Low-Energy-Barrier Pathway. *Advanced Energy Materials*, **2019**, 9, 1900725 | 21.8 | 13 |
| 86 | Acetate-Induced Disassembly of Spherical Iron Oxide Nanoparticle Clusters into Monodispersed Core-Shell Structures upon Nanoemulsion Fusion. *Langmuir*, **2017**, 33, 10351-10365 | 4 | 13 |
| 85 | Structural and optical characterization of size controlled silicon nanocrystals in SiO2/SiOxNy multilayers. *Energy Procedia*, **2011**, 10, 43-48 | 2.3 | 13 |
| 84 | Structural and functional characterization of (110)-oriented epitaxial La2−Ca1−MnO3 electrodes and SrTiO3 tunnel barriers. *Journal of Applied Physics*, **2007**, 101, 093902 | 2.5 | 13 |
| 83 | Clustering analysis strategies for electron energy loss spectroscopy (EELS). *Ultramicroscopy*, **2018**, 185, 42-48 | 3.1 | 13 |
| 82 | Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. *Nano Letters*, **2018**, 18, 5854-5861 | 11.5 | 13 |

| | | | |
|---|---|---|---|
| 81 | Structural investigation of strontium titanate nanoparticles and the core-shell model. *Physical Review B*, **2013**, 87, | 3.3 | 12 |
| 80 | Heteroepitaxial growth of MgO(111) thin films on Al2O3(0001): Evidence of a wurtzite to rocksalt transformation. *Physical Review B*, **2012**, 86, | 3.3 | 12 |
| 79 | Controlled 3D-coating of the pores of highly ordered mesoporous antiferromagnetic Co3O4 replicas with ferrimagnetic Fe(x)Co(3-x)O4 nanolayers. *Nanoscale*, **2013**, 5, 5561-7 | 7.7 | 12 |
| 78 | Epitaxial Integration of La2/3Sr1/3MnO3 and Fe Films by the Use of a MgO Spacer. *Crystal Growth and Design*, **2010**, 10, 1017-1020 | 3.5 | 12 |
| 77 | Surface Chemistry and Nano-/Microstructure Engineering on Photocatalytic InS Nanocrystals. *Langmuir*, **2018**, 34, 6470-6479 | 4 | 12 |
| 76 | Growth, structure, luminescence and mechanical resonance of Bi2O3 nano- and microwires. *CrystEngComm*, **2015**, 17, 132-139 | 3.3 | 11 |
| 75 | Ti diffusion in (001) SrTiO3-CoFe2O4 epitaxial heterostructures: blocking role of a MgAl2O4 buffer. *Physical Chemistry Chemical Physics*, **2013**, 15, 18274-80 | 3.6 | 11 |
| 74 | Enhanced Photoelectrochemical Behavior of H-TiO Nanorods Hydrogenated by Controlled and Local Rapid Thermal Annealing. *Nanoscale Research Letters*, **2017**, 12, 336 | 5 | 11 |
| 73 | Amorphous sub-nanometre Tb-doped SiO(x)N(y)/SiO2 superlattices for optoelectronics. *Nanotechnology*, **2015**, 26, 085203 | 3.4 | 10 |
| 72 | Insight into the compositional and structural nano features of AlN/GaN DBRs by EELS-HAADF. *Microscopy and Microanalysis*, **2013**, 19, 698-705 | 0.5 | 10 |
| 71 | Low-Power, High-Performance, Non-volatile Inkjet-Printed HfO-Based Resistive Random Access Memory: From Device to Nanoscale Characterization. *ACS Applied Materials & Interfaces*, **2019**, 11, 23659-23666 | 9.5 | 9 |
| 70 | Metal Oxide Aerogels with Controlled Crystallinity and Faceting from the Epoxide-Driven Cross-Linking of Colloidal Nanocrystals. *ACS Applied Materials & Interfaces*, **2018**, 10, 16041-16048 | 9.5 | 9 |
| 69 | EELS tomography in multiferroic nanocomposites: from spectrum images to the spectrum volume. *Nanoscale*, **2014**, 6, 6646-50 | 7.7 | 9 |
| 68 | Blue-green to near-IR switching electroluminescence from Si-rich silicon oxide/nitride bilayer structures. *Optics Letters*, **2011**, 36, 2617-9 | 3 | 9 |
| 67 | Electronic effects in manganite/insulator interfaces: interfacial enhancement of the insulating tunneling barriers. *Small*, **2008**, 4, 365-71 | 11 | 9 |
| 66 | Photoelectrochemically Active N-Adsorbing Ultrathin TiO2 Layers for Water-Splitting Applications Prepared by Pyrolysis of Oleic Acid on Iron Oxide Nanoparticle Surfaces under Nitrogen Environment. *Advanced Materials Interfaces*, **2018**, 6, 1801286 | 4.6 | 9 |
| 65 | Evidence of a minority monoclinic LaNiO phase in lanthanum nickelate thin films. *Physical Chemistry Chemical Physics*, **2017**, 19, 9137-9142 | 3.6 | 8 |
| 64 | Lead-Free LaWO Ferroelectric Thin Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 24409-18 | 9.5 | 8 |

| | | | |
|---|---|---|---|
| 63 | Effect of Si3N4-Mediated Inversion Layer on the Electroluminescence Properties of Silicon Nanocrystal Superlattices. *Advanced Electronic Materials*, **2018**, 4, 1700666 | 6.4 | 8 |
| 62 | Assessment of misorientation in metallic and semiconducting nanowires using precession electron diffraction. *Micron*, **2012**, 43, 910-5 | 2.3 | 8 |
| 61 | Tailoring the surface density of silicon nanocrystals embedded in SiOx single layers. *Journal of Applied Physics*, **2013**, 114, 233101 | 2.5 | 8 |
| 60 | Structural and Magnetic Implications of Transition Metal Migration within Octahedral Core–Shell Nanocrystals. *Chemistry of Materials*, **2020**, 32, 10435-10446 | 9.6 | 8 |
| 59 | Gradual Transformation of Ag2S to Au2S Nanoparticles by Sequential Cation Exchange Reactions: Binary, Ternary, and Hybrid Compositions. *Chemistry of Materials*, **2018**, 30, 6893-6902 | 9.6 | 8 |
| 58 | CuGaS2 and CuGaS2–ZnS Porous Layers from Solution-Processed Nanocrystals. *Nanomaterials*, **2018**, 8, | 5.4 | 7 |
| 57 | Substrate effects on the structural and photoresponse properties of CVD grown ZnO nanostructures: alumina vs. silica. *CrystEngComm*, **2011**, 13, 656-662 | 3.3 | 7 |
| 56 | ORDERED GAN/INGAN NANORODS ARRAYS GROWN BY MOLECULAR BEAM EPITAXY FOR PHOSPHOR-FREE WHITE LIGHT EMISSION. *International Journal of High Speed Electronics and Systems*, **2012**, 21, 1250010 | 0.5 | 7 |
| 55 | Neural-network-based depth-resolved multiscale structural optimization using density functional theory and electron diffraction data. *Physical Review B*, **2018**, 97, | 3.3 | 6 |
| 54 | Density Functional Theory Modeling of Low-Loss Electron Energy-Loss Spectroscopy in Wurtzite III-Nitride Ternary Alloys. *Microscopy and Microanalysis*, **2016**, 22, 706-16 | 0.5 | 6 |
| 53 | Au-Assisted Growth of Anisotropic and Epitaxial CdSe Colloidal Nanocrystals via in Situ Dismantling of Quantum Dots. *Chemistry of Materials*, **2015**, 27, 1656-1664 | 9.6 | 6 |
| 52 | Effect of the capping on the local Mn oxidation state in buried (001) and (110) SrTiO3/La2/3Ca1/3MnO3 interfaces. *Journal of Applied Physics*, **2011**, 110, 103903 | 2.5 | 6 |
| 51 | Growth of Ca3Co4O9+δ thin film on sapphire substrate and CGO dense pellet by pulsed laser deposition. Structural, microstructural, surface and electrochemical characterizations. *Solid State Ionics*, **2015**, 273, 13-17 | 3.3 | 5 |
| 50 | Effects of electric current on individual graphene oxide sheets combining in situ transmission electron microscopy and Raman spectroscopy. *Nanotechnology*, **2018**, 29, 285702 | 3.4 | 5 |
| 49 | Quasi-parallel precession diffraction: Alignment method for scanning transmission electron microscopes. *Ultramicroscopy*, **2018**, 193, 39-51 | 3.1 | 5 |
| 48 | Effects of SrTiO3 capping in La2/3Ca1/3MnO3 electrodes of different orientations. *Journal of Applied Physics*, **2008**, 103, 07E302 | 2.5 | 5 |
| 47 | Advances towards 4J lattice-matched including dilute nitride subcell for terrestrial and space applications **2016**, | | 5 |
| 46 | Structural and optical properties of Al-Tb/SiO2 multilayers fabricated by electron beam evaporation. *Journal of Applied Physics*, **2016**, 120, 135302 | 2.5 | 4 |

| | | | |
|---|---|---|---|
| 45 | Synthesis and Magnetic Characterization of Coaxial Ge1-xMnx/a-Si Heterostructures. *Crystal Growth and Design*, **2011**, 11, 5253-5259 | 3.5 | 4 |
| 44 | Quantitative parameters for the examination of InGaN QW multilayers by low-loss EELS. *Physical Chemistry Chemical Physics*, **2016**, 18, 23264-76 | 3.6 | 4 |
| 43 | The effect of Sb-surfactant on GaInP CuPt type ordering: assessment through dark field TEM and aberration corrected HAADF imaging. *Physical Chemistry Chemical Physics*, **2017**, 19, 9806-9810 | 3.6 | 3 |
| 42 | Rare Earth-Ion/Nanosilicon Ultrathin Layer: A Versatile Nanohybrid Light-Emitting Building Block for Active Optical Metamaterials. *Journal of Physical Chemistry C*, **2015**, 119, 11800-11808 | 3.8 | 3 |
| 41 | Zinc blende and wurtzite CoO polymorph nanoparticles: Rational synthesis and commensurate and incommensurate magnetic order. *Applied Materials Today*, **2019**, 16, 322-331 | 6.6 | 3 |
| 40 | Structural and compositional properties of Er-doped silicon nanoclusters/oxides for multilayered photonic devices studied by STEM-EELS. *Nanoscale*, **2013**, 5, 9963-70 | 7.7 | 3 |
| 39 | EELS signal enhancement by means of beam precession in the TEM. *Ultramicroscopy*, **2012**, 116, 135-137 | 3.1 | 3 |
| 38 | History of cesarean before 32 weeks' gestation and trial of labor: what is the risk of uterine rupture?. *Acta Obstetricia Et Gynecologica Scandinavica*, **2009**, 88, 149-53 | 3.8 | 3 |
| 37 | Perpendicular magnetic anisotropy in chemically disordered FePd-FeV(100) alloy thin films. *Journal of Applied Physics*, **2006**, 99, 073903 | 2.5 | 3 |
| 36 | Grain Boundaries: Engineering Transport in Manganites by Tuning Local Nonstoichiometry in Grain Boundaries (Adv. Mater. 4/2019). *Advanced Materials*, **2019**, 31, 1970026 | 24 | 2 |
| 35 | On the use of Sb to improve the performance of GaInP subcells of multijunction solar cells **2015**, | | 2 |
| 34 | Precessed electron beam electron energy loss spectroscopy of graphene: Beyond channelling effects. *Applied Physics Letters*, **2014**, 105, 053117 | 3.4 | 2 |
| 33 | Transport properties across the La2-xCa1-xMnO3-SrTiO3 heterointerface. *Journal of Applied Physics*, **2008**, 103, 07E303 | 2.5 | 2 |
| 32 | Direct Measurement of Oxygen Mass Transport at the Nanoscale. *Advanced Materials*, **2021**, 33, e2105622 | 24 | 2 |
| 31 | Reliable Characterization of Organic & Pharmaceutical Compounds with High Resolution Monochromated EEL Spectroscopy. *Polymers*, **2020**, 12, | 4.5 | 2 |
| 30 | Electron energy-loss spectroscopic tomography of FexCo(3-x)O4 impregnated Co3O4 mesoporous particles: unraveling the chemical information in three dimensions. *Analyst, The*, **2016**, 141, 4968-72 | 5 | 2 |
| 29 | Support vector machine for EELS oxidation state determination. *Ultramicroscopy*, **2021**, 221, 113190 | 3.1 | 2 |
| 28 | Direct Evidence of a Graded Magnetic Interface in Bimagnetic Core/Shell Nanoparticles Using Electron Magnetic Circular Dichroism (EMCD). *Nano Letters*, **2021**, 21, 6923-6930 | 11.5 | 2 |

| | | | |
|---|---|---|---|
| 27 | Determination of Shape and Sphericity of Silicon Quantum Dots Imaged by EFTEM-Tomography. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2017**, 14, 1700216 | | 2 |
| 26 | Size-Controlled Si Nanocrystals Fabricated by Electron Beam Evaporation. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1800619 | 1.6 | 1 |
| 25 | DFT modeling of wurtzite III-nitride ternary alloys. *Advances in Imaging and Electron Physics*, **2019**, 79-99 | 0.2 | 1 |
| 24 | Green Electroluminescence of Al/Tb/Al/SiO2 Devices Fabricated by Electron Beam Evaporation. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700451 | 1.6 | 1 |
| 23 | Electron energy loss spectroscopy on semiconductor heterostructures for optoelectronics and photonics applications. *Journal of Microscopy*, **2016**, 262, 142-50 | 1.9 | 1 |
| 22 | Unvealing GaN Polytypism in Distributed GaN/InAlN Bragg Reflectors Through HRTEM Image Simulation. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800218 | 1.6 | 1 |
| 21 | A new approach for the characterization of proliferative cells in cestodes. *Experimental Parasitology* , **2014**, 138, 25-9 | 2.1 | 1 |
| 20 | (V)EELS Characterization of InAlN/GaN Distributed Bragg Reflectors. *Journal of Physics: Conference Series*, **2011**, 326, 012014 | 0.3 | 1 |
| 19 | WhatEELS. A python-based interactive software solution for ELNES analysis combining clustering and NLLS. *Ultramicroscopy*, **2022**, 232, 113403 | 3.1 | 1 |
| 18 | Mapping the Magnetic Coupling of Self-Assembled FeO Nanocubes by Electron Holography. *Materials*, **2021**, 14, | 3.5 | 1 |
| 17 | Tailoring the Transport Properties of Mesoporous Doped Cerium Oxide for Energy Applications. *Journal of Physical Chemistry C*, **2021**, 125, 16451-16463 | 3.8 | 1 |
| 16 | Low-loss EELS methods. *Advances in Imaging and Electron Physics*, **2019**, 49-77 | 0.2 | 0 |
| 15 | Strategies for EELS Data Analysis. Introducing UMAP and HDBSCAN for Dimensionality Reduction and Clustering.. *Microscopy and Microanalysis*, **2022**, 28, 109-122 | 0.5 | 0 |
| 14 | Er-doped Si-nc/SiO2 multilayer. *Advances in Imaging and Electron Physics*, **2019**, 159-173 | 0.2 | |
| 13 | Precession-assisted Quasi-Parallel Illumination STEM on three condenser lenses TEMs **2016**, 439-440 | | |
| 12 | Shape Determination in Lithium-Ion Battery Cathode Materials Using Electron Diffraction-Assisted Electron Tomography. *Microscopy and Microanalysis*, **2019**, 25, 1824-1825 | 0.5 | |
| 11 | Multiple InGaN QW heterostructure. *Advances in Imaging and Electron Physics*, **2019**, 135-158 | 0.2 | |
| 10 | Atomistic modelling and high resolution electron microscopy simulations of CeO2 nanoparticles. *Applied Physics Letters*, **2017**, 111, 223107 | 3.4 | |

| | | |
|---|---|---|
| 9 | High-temperature long-term stable ordered mesoporous electrodes for IT-SOFC. *Ceramic Engineering and Science Proceedings*, **2015**, 111-116 | 0.1 |
| 8 | ORDEREDGaN/InGaNNANORODS ARRAYS GROWN BY MOLECULAR BEAM EPITAXY FOR PHOSPHOR-FREE WHITE LIGHT EMISSION. *Selected Topics in Electornics and Systems*, **2013**, 109-132 | 0 |
| 7 | A Versatile and Low-Toxicity Route for the Production of Electroceramic Oxide Nanopowders. *European Journal of Inorganic Chemistry*, **2008**, 2008, 954-960 | 2.3 |
| 6 | Anisotropic strain relaxation in (110) La2/3Ca1/3MnO3 thin films **2008**, 643-644 | |
| 5 | Dissimilar cation migration in (001) and (110) La2/3Ca1/3MnO3 thin films **2008**, 373-374 | |
| 4 | Poster: Electronic Structure, Lattice Dynamics, and Transport471-522 | |
| 3 | Si-NCs embedded in dielectric matrices. *Advances in Imaging and Electron Physics*, **2019**, 175-203 | 0.2 |
| 2 | AlN/GaN and InAlN/GaN DBRs. *Advances in Imaging and Electron Physics*, **2019**, 209, 101-133 | 0.2 |
| 1 | Electron Tomography. *Springer Series in Materials Science*, **2021**, 257-283 | 0.9 |