

# Marcin Aapiński

## List of Publications by Year in descending order

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82  
papers

1,061  
citations

516215

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h-index

580395

25  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1449  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Physicochemical properties of Mn <sub>1.45</sub> Co <sub>1.45</sub> Cu <sub>0.104</sub> spinel coating deposited on the Crofer 22 H ferritic steel and exposed to high-temperature oxidation under thermal cycling conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 5649-5666.  | 2.0  | 9         |
| 2  | Pilot-Scale Studies of WO <sub>3</sub> /S-Doped g-C <sub>3</sub> N <sub>4</sub> Heterojunction toward Photocatalytic NO <sub>x</sub> Removal. <i>Materials</i> , 2022, 15, 633.  | 1.3  | 10        |
| 3  | A dual-control strategy based on electrode material and electrolyte optimization to construct an asymmetric supercapacitor with high energy density. <i>Nanotechnology</i> , 2022, , .   | 1.3  | 2         |
| 4  | Cu-Doped Layered Double Hydroxide Constructs the Performance-Enhanced Supercapacitor Via Band Gap Reduction and Defect Triggering. <i>ACS Applied Energy Materials</i> , 2022, 5, 2192-2201.   | 2.5  | 45        |
| 5  | Intermetallic disordered magnet $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Gd} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{AlB} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ its relation to other $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{AlB} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2022, 105, . | 1.1  | 4         |
| 6  | Praseodymium Orthoniobate and Praseodymium Substituted Lanthanum Orthoniobate: Electrical and Structural Properties. <i>Materials</i> , 2022, 15, 2267.  | 1.3  | 5         |
| 7  | Tin Oxide Encapsulated into Pyrolyzed Chitosan as a Negative Electrode for Lithium Ion Batteries. <i>Materials</i> , 2021, 14, 1156.   | 1.3  | 7         |
| 8  | Improvement of Oxygen Electrode Performance of Intermediate Temperature Solid Oxide Cells by Spray Pyrolysis Deposited Active Layers. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002227.   | 1.9  | 10        |
| 9  | Changes on the Surface of the SiO <sub>2</sub> /C Composite, Leading to the Formation of Conductive Carbon Structures with Complex Nature of DC Conductivity. <i>Materials</i> , 2021, 14, 2158.   | 1.3  | 0         |
| 10 | Surface modification of PMMA polymer and its composites with PC61BM fullerene derivative using an atmospheric pressure microwave argon plasma sheet. <i>Scientific Reports</i> , 2021, 11, 9270.   | 1.6  | 20        |
| 11 | The unstable thermoelectric effect in non-stoichiometric Cu <sub>2</sub> Se during the non-equilibrium phase transition. <i>Journal of Materials Science</i> , 2021, 56, 13705-13714.  | 1.7  | 2         |
| 12 | Synthesis of Phosphonated Carbon Nanotubes: New Insight into Carbon Nanotubes Functionalization. <i>Materials</i> , 2021, 14, 2726.  | 1.3  | 9         |
| 13 | Manganese-Cobalt Based Spinel Coatings Processed by Electrophoretic Deposition Method: The Influence of Sintering on Degradation Issues of Solid Oxide Cell Oxygen Electrodes at 750 °C. <i>Materials</i> , 2021, 14, 3836.  | 1.3  | 12        |
| 14 | From Structure to Luminescent Properties of B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -SrF <sub>2</sub> Glass and Glass-Ceramics Doped with Eu <sup>3+</sup> Ions. <i>Materials</i> , 2021, 14, 4490.  | 1.3  | 14        |
| 15 | Scaling Up the Process of Titanium Dioxide Nanotube Synthesis and Its Effect on Photoelectrochemical Properties. <i>Materials</i> , 2021, 14, 5686.  | 1.3  | 6         |
| 16 | Influence of selected CO <sub>2</sub> absorption promoters on the characteristics of calcium carbonate particles produced by carbonation of the post-distillation liquid from the Solvay process. <i>Powder Technology</i> , 2021, 391, 432-441.   | 2.1  | 7         |
| 17 | Experimental tuning of AuAg nanoalloy plasmon resonances assisted by machine learning method. <i>Applied Surface Science</i> , 2021, 567, 150802.  | 3.1  | 11        |
| 18 | Influence of alkali metal cations on the photoactivity of crystalline and exfoliated amorphous WO <sub>3</sub> - photointercalation phenomenon. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120527.   | 10.8 | 13        |

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|----|---|-----|-----------|
| 19 | Gigantic electro-chemo-mechanical properties of nanostructured praseodymium doped ceria. <i>Nanoscale</i> , 2021, 13, 7583-7589.  | 2.8 | 5         |
| 20 | The Effect of Cobalt Incorporation into Nickel-iron Oxide/(oxy)hydroxide Catalyst on Electrocatalytic Performance Toward Oxygen Evolution Reaction. <i>Energy Technology</i> , 2021, 9, 2100688.                      | 1.8 | 10        |
| 21 | Plasmon-enhanced photoluminescence from TiO <sub>2</sub> and TeO <sub>2</sub> thin films doped by Eu <sup>3+</sup> for optoelectronic applications. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 1271-1278. | 1.5 | 1         |
| 22 | Carnivorous plants used for green synthesis of silver nanoparticles with broad-spectrum antimicrobial activity. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1415-1428.  | 2.3 | 68        |
| 23 | The influence of thermal treatment on electrocatalytic properties of Mn-Co nanofilms on nickel foam toward oxygen evolution reaction activity. <i>Materials Letters</i> , 2020, 258, 126759.                          | 1.3 | 2         |
| 24 | Substrate Dependence in the Formation of Au Nanoislands for Plasmonic Platform Application. <i>Plasmonics</i> , 2020, 15, 101-107.  | 1.8 | 17        |
| 25 | A study of the kinetics of bismuth telluride synthesis by an oxide reduction method. <i>Thermochimica Acta</i> , 2020, 683, 178437.   | 1.2 | 12        |
| 26 | Photoinduced K <sup>+</sup> Intercalation into MoO <sub>3</sub> /FTO Photoanode—the Impact on the Photoelectrochemical Performance. <i>Electrocatalysis</i> , 2020, 11, 111-120.                                      | 1.5 | 20        |
| 27 | Preparation of Hydrogen Electrodes of Solid Oxide Cells by Infiltration: Effects of the Preparation Procedure on the Resulting Microstructure. <i>Materials</i> , 2020, 13, 131.                                      | 1.3 | 4         |
| 28 | Effect of selected ammonia escape inhibitors on carbon dioxide capture and utilization via calcium carbonate precipitation. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 42, 101298.                          | 3.3 | 12        |
| 29 | Processing of Polyester-Urethane Filament and Characterization of FFF 3D Printed Elastic Porous Structures with Potential in Cancellous Bone Tissue Engineering. <i>Materials</i> , 2020, 13, 4457.                   | 1.3 | 22        |
| 30 | Novel Class of Proton Conducting Materials—High Entropy Oxides. , 2020, 2, 1315-1321.   |     | 50        |
| 31 | Improving the Performance of a Graphite Foil/Polyaniline Electrode Material by a Thin PEDOT:PSS Layer for Application in Flexible, High Power Supercapacitors. <i>Materials</i> , 2020, 13, 5791.                     | 1.3 | 10        |
| 32 | The Influence of the Electrodeposition Parameters on the Properties of Mn-Co-Based Nanofilms as Anode Materials for Alkaline Electrolysers. <i>Materials</i> , 2020, 13, 2662.  | 1.3 | 6         |
| 33 | Evolution of Ag nanostructures created from thin films: UV-vis absorption and its theoretical predictions. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 494-507.  | 1.5 | 16        |
| 34 | Two kinds of oxygen vacancies in lithium titanate doped with copper as detected by EPR. <i>Solid State Sciences</i> , 2020, 106, 106337.  | 1.5 | 10        |
| 35 | Precipitation and Transformation of Vaterite Calcium Carbonate in the Presence of Some Organic Solvents. <i>Materials</i> , 2020, 13, 2742.   | 1.3 | 13        |
| 36 | Nano Tin/Tin Oxide Attached onto Graphene Oxide Skeleton as a Fluorine Free Anode Material for Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2020, 59, 4150-4159.   | 1.9 | 17        |

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|----|---|-----|-----------|
| 37 | Polyurethane Composite Scaffolds Modified with the Mixture of Gelatin and Hydroxyapatite Characterized by Improved Calcium Deposition. <i>Polymers</i> , 2020, 12, 410.   | 2.0 | 10        |
| 38 | Ciprofloxacin-Modified Degradable Hybrid Polyurethane-Polylactide Porous Scaffolds Developed for Potential Use as an Antibacterial Scaffold for Regeneration of Skin. <i>Polymers</i> , 2020, 12, 171.  | 2.0 | 19        |
| 39 | Exsolution of Ni nanoparticles on the surface of cerium and nickel co-doped lanthanum strontium titanate as a new anodic layer for DLR-SOFC. Anti-coking potential and H <sub>2</sub> S poisoning resistance of the prepared material. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29186-29200. | 3.8 | 11        |
| 40 | Solvent-Free Synthesis of Phosphonic Graphene Derivative and Its Application in Mercury Ions Adsorption. <i>Nanomaterials</i> , 2019, 9, 485.   | 1.9 | 5         |
| 41 | Deposition and Electrical and Structural Properties of La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3</sub> Thin Films for Application in High-Temperature Electrochemical Cells. <i>Journal of Electronic Materials</i> , 2019, 48, 5428-5441.   | 1.0 | 8         |
| 42 | From structure to luminescence investigation of oxyfluoride transparent glasses and glass-ceramics doped with Eu <sup>3+</sup> /Dy <sup>3+</sup> ions. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1410-1418.   | 2.8 | 24        |
| 43 | Structure and optical parameters of Eu doped tellurium oxide thin films prepared by reactive magnetron sputtering method. <i>Thin Solid Films</i> , 2019, 691, 137592.  | 0.8 | 3         |
| 44 | Influence of Selected Saccharides on the Precipitation of Calcium-Vaterite Mixtures by the CO <sub>2</sub> Bubbling Method. <i>Crystals</i> , 2019, 9, 117.   | 1.0 | 15        |
| 45 | Structure, luminescent properties and FDTD simulation of TeO <sub>2</sub> -BaO-Bi <sub>2</sub> O <sub>3</sub> -Ag:Ln <sup>3+</sup> glass-ceramics system. <i>Journal of Luminescence</i> , 2019, 214, 116539.   | 1.5 | 1         |
| 46 | Widening of the electroactivity potential range by composite formation "capacitive properties of TiO <sub>2</sub> /BiVO <sub>4</sub> /PEDOT:PSS electrodes in contact with an aqueous electrolyte. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 483-493.  | 1.5 | 6         |
| 47 | Precipitation of Spherical Vaterite Particles via Carbonation Route in the Bubble Column and the Gas-Lift Reactor. <i>Jom</i> , 2019, 71, 1041-1048.  | 0.9 | 10        |
| 48 | CeIr <sub>3</sub> : superconductivity in a phase based on tetragonally close packed clusters. <i>Superconductor Science and Technology</i> , 2019, 32, 025008.  | 1.8 | 14        |
| 49 | Bis-phosphonated carbon nanotubes: One pot synthesis and their application as efficient adsorbent of mercury. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 269-277.  | 1.0 | 6         |
| 50 | Influence of yttria surface modification on high temperature corrosion of porous Ni <sub>22</sub> Cr alloy. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 361-369.   | 1.1 | 3         |
| 51 | Tailored white light emission in Eu <sup>3+</sup> /Dy <sup>3+</sup> doped tellurite glass phosphors containing Al <sup>3+</sup> ions. <i>Optical Materials</i> , 2018, 79, 289-295.   | 1.7 | 18        |
| 52 | Tailoring properties of reduced graphene oxide by oxygen plasma treatment. <i>Applied Surface Science</i> , 2018, 440, 651-659.   | 3.1 | 55        |
| 53 | Structural and luminescent study of TeO <sub>2</sub> -BaO-Bi <sub>2</sub> O <sub>3</sub> -Ag glass system doped with Eu <sup>3+</sup> and Dy <sup>3+</sup> for possible color-tunable phosphor application. <i>Optical Materials</i> , 2018, 79, 390-396.   | 1.7 | 14        |
| 54 | Fabrication, structural and electrical properties of Sr(V,Nb)O <sub>3</sub> -Ĥ perovskite materials. <i>Materials Chemistry and Physics</i> , 2018, 212, 446-452.   | 2.0 | 6         |

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|----|--|-----|-----------|
| 55 | Structure and thermoelectric properties of bismuth tellurideâ€”Carbon composites. Materials Research Bulletin, 2018, 99, 10-17.  | 2.7 | 14        |
| 56 | Auâ€”Si plasmonic platforms: synthesis, structure and FDTD simulations. Beilstein Journal of Nanotechnology, 2018, 9, 2599-2608.   | 1.5 | 15        |
| 57 | UV-Vis-Induced Degradation of Phenol over Magnetic Photocatalysts Modified with Pt, Pd, Cu and Au Nanoparticles. Nanomaterials, 2018, 8, 28.   | 1.9 | 60        |
| 58 | Titania nanotubes modified by a pyrolyzed metal-organic framework with zero valent iron centers as a photoanode with enhanced photoelectrochemical, photocatalytic activity and high capacitance. Electrochimica Acta, 2018, 278, 13-24.                   | 2.6 | 8         |
| 59 | Formation of intermetallic compounds in the solid-liquid composites of the Ga-Ni system. Materials Research Express, 2018, 5, 116532.  | 0.8 | 0         |
| 60 | New plasmonic platform for enhanced luminescence of Valrubicin. Optical Materials, 2018, 83, 225-228.  | 1.7 | 8         |
| 61 | Structural and luminescence investigation of GeO <sub>2</sub> -PbO-Bi <sub>2</sub> O <sub>3</sub> -SrF <sub>2</sub> glasses doped with Eu <sup>3+</sup> , Tb <sup>3+</sup> and Tm <sup>3+</sup> ions. Journal of Non-Crystalline Solids, 2017, 462, 41-46. | 1.5 | 9         |
| 62 | Eu <sup>3+</sup> doped tellurite glass ceramics containing SrF <sub>2</sub> nanocrystals: Preparation, structure and luminescence properties. Journal of Alloys and Compounds, 2017, 696, 619-626.   | 2.8 | 34        |
| 63 | Polaron hopping conduction in manganese borosilicate glass. Journal of Non-Crystalline Solids, 2017, 458, 15-21.   | 1.5 | 10        |
| 64 | Role of MnO in manganeseâ€”borate binary glass systems: a study on structure and thermal properties. Bulletin of Materials Science, 2017, 40, 933-938.   | 0.8 | 9         |
| 65 | Fully scalable one-pot method for the production of phosphonic graphene derivatives. Beilstein Journal of Nanotechnology, 2017, 8, 1094-1103.  | 1.5 | 14        |
| 66 | Heat Treatment Effect on Eu <sup>3+</sup> Doped TeO <sub>2</sub> -BaO-Bi <sub>2</sub> O <sub>3</sub> Glass Systems with Ag Nanoparticles. Journal of Nanomaterials, 2017, 2017, 1-12.  | 1.5 | 9         |
| 67 | The influence of nanostructure size on V <sub>2</sub> O <sub>5</sub> electrochemical properties as cathode materials for lithium ion batteries. RSC Advances, 2016, 6, 55689-55697.  | 1.7 | 22        |
| 68 | Structure and Thermoelectric Properties of Te-Ag-Ge-Sb (TAGS) Materials Obtained by Reduction of Melted Oxide Substrates. Journal of Electronic Materials, 2016, 45, 1085-1093.  | 1.0 | 16        |
| 69 | Electrical conductivity and relaxation processes in V <sub>2</sub> O <sub>5</sub> nanorods prepared by solâ€”gel method. Physica Status Solidi (B): Basic Research, 2015, 252, 2111-2116.  | 0.7 | 17        |
| 70 | The Influence of Thermal Conditions on V <sub>2</sub> O <sub>5</sub> Nanostructures Prepared by Sol-Gel Method. Journal of Nanomaterials, 2015, 2015, 1-8.   | 1.5 | 24        |
| 71 | XPS Study of Superconducting LiTi <sub>2</sub> O <sub>4</sub> and LiTi <sub>2-x</sub> Cu <sub>x</sub> O <sub>4</sub> Sol-Gel Derived Powders and Thin Films. Acta Physica Polonica A, 2014, 126, A-107-A-110.  | 0.2 | 7         |
| 72 | The study of structure and surface morphology of lithium titanate solâ€”gel derived thin films. Journal of Physics and Chemistry of Solids, 2013, 74, 575-578.   | 1.9 | 5         |

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|----|--|-----|-----------|
| 73 | Application of wet powder spraying for anode supported solid oxide fuel cell with a perovskite $\text{SrTi}_{0.98}\text{Nb}_{0.02}\text{O}_{3-\lambda}$ anode. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2736-2741. | 0.8 | 3         |
| 74 | Structural and optical investigations of sol-gel derived lithium titanate thin films. Journal of Alloys and Compounds, 2012, 536, 30-32.   | 2.8 | 3         |
| 75 | Structural and electrical properties of $\text{Sr}(\text{Ti}, \text{Fe})\text{O}_{3-\lambda}$ materials for SOFC cathodes. Journal of Electroceramics, 2012, 28, 80-87.  | 0.8 | 56        |
| 76 | Superconducting Properties of $\text{VN-SiO}_2$ Sol-Gel Derived Thin Films. Acta Physica Polonica A, 2012, 121, 832-835.   | 0.2 | 1         |
| 77 | FABRICATION AND CHARACTERIZATION OF ANODE SUPPORTED SOLID OXIDE FUEL CELLS. Functional Materials Letters, 2011, 04, 161-164.   | 0.7 | 1         |
| 78 | Structure of sol-gel derived $\text{Nb}_2\text{O}_5$ films for active coating devices. Photonics Letters of Poland, 2011, 3, .   | 0.2 | 0         |
| 79 | Electrical and optical characterization of ITO thin films. , 2009, , .   |     | 5         |
| 80 | Influence of Tb-dopant on water adsorption and wettability of $\text{TiO}_2$ thin films. , 2009, , .   |     | 1         |
| 81 | Study of antistatic properties of $\text{TiO}_2$ and $\text{TiO}_2$ :(Tb,Pd) thin films obtained by magnetron sputtering process. , 2009, , .  |     | 1         |
| 82 | Electrical properties of polymer coatings modified with nanoadditives. , 2009, , .   |     | 0         |