

Ondrej Caha

List of Publications by Year in descending order

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times ranked

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| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Controlling the Metamagnetic Phase Transition in FeRh/MnRh Superlattices and Thin-Film Fe _{50-x} Mn _x Rh ₅₀ Alloys. ACS Applied Materials & Interfaces, 2022, 14, 3568-3579. | 8.0 | 0 |
| 2 | Photoinduced insulator-to-metal transition and coherent acoustic phonon propagation in LaCoO_3 thin films explored by femtosecond pump-probe ellipsometry. Physical Review B, 2022, 105, . | 3.2 | 5 |
| 3 | Tuning of SPR for Colocalized Characterization of Biomolecules Using Nanoparticle-Containing Multilayers. Plasmonics, 2021, 16, 1203-1211. | 3.4 | 1 |
| 4 | Structure Inversion Asymmetry and Rashba Effect in Quantum Confined Topological Crystalline Insulator Heterostructures. Advanced Functional Materials, 2021, 31, 2008885. | 14.9 | 12 |
| 5 | Triple-Point Fermions in Ferroelectric GeTe. Physical Review Letters, 2021, 126, 206403. | 7.8 | 12 |
| 6 | Signatures of dephasing by mirror-symmetry breaking in weak-antilocalization magnetoresistance across the topological transition in $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$. Physical Review B, 2021, 103, . | 3.2 | 7 |
| 7 | $\text{Mn}^{2+}\text{MnSb}_2\text{Te}_4$: A Topological Insulator with Magnetic Gap Closing at High Curie Temperatures of 45–50 K. Advanced Materials, 2021, 33, e2102935. | 21.0 | 70 |
| 8 | Landau level spectroscopy of $\text{Bi}_{2-x}\text{Mn}_x\text{Te}_3$. Physical Review B, 2020, 102, . | 2.2 | 10 |
| 9 | Evolution of strain across the magnetostructural phase transition in epitaxial FeRh films on different substrates. Physical Review B, 2020, 101, . | 3.2 | 19 |
| 10 | Mn_3Ge -based tetragonal Heusler alloy thin films with addition of Ni, Pt, and Pd. Journal of Physics Condensed Matter, 2020, 32, 145801. | 1.8 | 4 |
| 11 | Step-edge assisted large scale FeSe monolayer growth on epitaxial Bi_2Se_3 thin films. New Journal of Physics, 2020, 22, 073050. | 2.9 | 8 |
| 12 | Fully spin-polarized bulk states in ferroelectric GeTe. Physical Review Research, 2020, 2, . | 3.6 | 13 |
| 13 | Annealing Behavior with Thickness Hindered Nucleation in Small-Molecule Organic Semiconductor Thin Films. Crystal Growth and Design, 2019, 19, 3777-3784. | 3.0 | 2 |
| 14 | Enhanced permeability dielectric FeCo/Al ₂ O ₃ multilayer thin films with tailored properties deposited by magnetron sputtering on silicon. AIP Advances, 2019, 9, 035243. | 1.3 | 3 |
| 15 | Large magnetic gap at the Dirac point in Bi ₂ Te ₃ /MnBi ₂ Te ₄ heterostructures. Nature, 2019, 576, 423-428. | 27.8 | 189 |
| 16 | Preparation of high-quality stress-free (001) aluminum nitride thin film using a dual Kaufman ion-beam source setup. Thin Solid Films, 2019, 670, 105-112. | 1.8 | 11 |
| 17 | Bulk polymer nanocomposites with preparation protocol governed nanostructure: the origin and properties of aggregates and polymer bound clusters. Soft Matter, 2018, 14, 2094-2103. | 2.7 | 33 |
| 18 | Direct observation of double exchange in ferromagnetic La _{0.7} Sr _{0.3} CoO ₃ by broadband ellipsometry. Physical Review B, 2018, 97, . | 3.2 | 14 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Determining the sub-surface damage of CdTe single crystals after lapping. Journal of Materials Science: Materials in Electronics, 2018, 29, 9652-9662. | 2.2 | 6 |
| 20 | Energy scale of Dirac electrons in Cd ₃ As ₂ . Physical Review B, 2018, 97, . | 3.2 | 16 |
| 21 | Nonuniform carrier density in $\text{Cd}_{1-x}\text{Te}_x$ evidenced by optical spectroscopy. Physical Review B, 2018, 97, . | 2.2 | 22 |
| 22 | Structural and Optical Properties of Luminescent Copper(I) Chloride Thin Films Deposited by Sequentially Pulsed Chemical Vapour Deposition. Coatings, 2018, 8, 369. | 2.6 | 12 |
| 23 | Structural disorder of natural $\text{Bi}_{1-x}\text{Te}_x$ superlattices grown by molecular beam epitaxy. Physical Review Materials, 2018, 2, . | 2.4 | 10 |
| 24 | Mid-infrared ellipsometry, Raman and X-ray diffraction studies of Al Ga ^N /AlN/Si structures. Applied Surface Science, 2017, 421, 859-865. | 6.1 | 2 |
| 25 | Topological quantum phase transition from mirror to time reversal symmetry protected topological insulator. Nature Communications, 2017, 8, 968. | 12.8 | 31 |
| 26 | Stress-free deposition of [001] preferentially oriented titanium thin film by Kaufman ion-beam source. Thin Solid Films, 2017, 638, 57-62. | 1.8 | 5 |
| 27 | Determination of the energy band gap of Bi ₂ Se ₃ . Scientific Reports, 2017, 7, 6891. | 3.3 | 41 |
| 28 | Temperature-dependent far-infrared reflectance of an epitaxial (BaTiO ₃) ₈ /(SrTiO ₃) ₄ superlattice. Physical Review B, 2017, 95, . | 3.2 | 4 |
| 29 | Giant Rashba Splitting in Pb _{1-x} Sn _x Te (111) Topological Crystalline Insulator Films Controlled by Bi Doping in the Bulk. Advanced Materials, 2017, 29, 1604185. | 21.0 | 44 |
| 30 | Interband absorption edge in the topological insulators $\text{Bi}_{1-x}\text{Sb}_x$. Physical Review B, 2017, 96, . | 2.2 | 25 |
| 31 | Cyclotron resonance of Kane electrons observed in Cd ₃ As ₂ . , 2017, , . | | 0 |
| 32 | Magneto-Optical Signature of Massless Kane Electrons in $\text{Cd}_{1-x}\text{Te}_x$. Physical Review Letters, 2016, 117, 136401. | 7.8 | 93 |
| 33 | Preparation of (001) preferentially oriented titanium thin films by ion-beam sputtering deposition on thermal silicon dioxide. Journal of Materials Science, 2016, 51, 3329-3336. | 3.7 | 17 |
| 34 | Nonmagnetic band gap at the Dirac point of the magnetic topological insulator (Bi _{1-x} Mn _x) ₂ Se ₃ . Nature Communications, 2016, 7, 10559. | 12.8 | 102 |
| 35 | Comparative analysis of thermal stability of two different nc-TiC/a-C:H coatings. Surface and Coatings Technology, 2015, 267, 32-39. | 4.8 | 6 |
| 36 | Structural and electronic properties of manganese-doped Bi ₂ Te ₃ epitaxial layers. New Journal of Physics, 2015, 17, 013028. | 2.9 | 33 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Structure and composition of bismuth telluride topological insulators grown by molecular beam epitaxy. <i>Journal of Applied Crystallography</i> , 2014, 47, 1889-1900. | 4.5 | 36 |
| 38 | Study of the thermal dependence of mechanical properties, chemical composition and structure of nanocomposite TiC/a-C:H coatings. <i>Surface and Coatings Technology</i> , 2014, 242, 62-67. | 4.8 | 9 |
| 39 | Reprint of "Study of the thermal dependence of mechanical properties, chemical composition and structure of nanocomposite TiC/a-C:H coatings". <i>Surface and Coatings Technology</i> , 2014, 255, 158-163. | 4.8 | 0 |
| 40 | Raman and interband optical spectra of epitaxial layers of the topological insulators Bi ₂ Te ₃ and Bi ₂ Se ₃ on BaF ₂ substrates. <i>Physica Scripta</i> , 2014, T162, 014007. | 2.5 | 18 |
| 41 | On the control of deposition process for enhanced mechanical properties of nc-TiC/a-C:H coatings with DC magnetron sputtering at low or high ion flux. <i>Surface and Coatings Technology</i> , 2014, 255, 8-14. | 4.8 | 18 |
| 42 | Tribological properties of nc-TiC/a-C:H coatings prepared by magnetron sputtering at low and high ion bombardment of the growing film. <i>Surface and Coatings Technology</i> , 2014, 241, 64-73. | 4.8 | 12 |
| 43 | Growth, Structure, and Electronic Properties of Epitaxial Bismuth Telluride Topological Insulator Films on BaF ₂ (111) Substrates. <i>Crystal Growth and Design</i> , 2013, 13, 3365-3373. | 3.0 | 70 |
| 44 | Humidity resistant hydrogenated carbon nitride films. <i>Applied Surface Science</i> , 2013, 275, 7-13. | 6.1 | 2 |
| 45 | Lattice constants and optical response of pseudomorph Si-rich SiGe:B. <i>Applied Physics Letters</i> , 2013, 103, 202107. | 3.3 | 1 |
| 46 | Nucleation of lateral compositional modulation in InGaP epitaxial films grown on (001) GaAs. <i>Journal of Applied Physics</i> , 2012, 111, 024306. | 2.5 | 4 |
| 47 | Evaluation of composition, mechanical properties and structure of nc-TiC/a-C:H coatings prepared by balanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2012, 211, 111-116. | 4.8 | 27 |
| 48 | Precipitation in silicon wafers after high temperature preanneal studied by X-ray diffraction methods. <i>Physica B: Condensed Matter</i> , 2012, 407, 3002-3005. | 2.7 | 0 |
| 49 | Complementary information on CdSe/ZnSe quantum dot local structure from extended X-ray absorption fine structure and diffraction anomalous fine structure measurements. <i>Journal of Alloys and Compounds</i> , 2012, 523, 155-160. | 5.5 | 13 |
| 50 | Studies of influence of high temperature preannealing on oxygen precipitation in CZ Si wafers. <i>Journal of Crystal Growth</i> , 2012, 348, 53-59. | 1.5 | 9 |
| 51 | Surface morphology and magnetic anisotropy in (Ga,Mn)As. <i>Applied Physics Letters</i> , 2011, 98, 152503. | 3.3 | 10 |
| 52 | InAs/GaAs quantum dot capping in kinetically limited MOVPE growth regime. <i>Journal of Crystal Growth</i> , 2011, 317, 39-42. | 1.5 | 2 |
| 53 | Study of oxide precipitates in silicon using X-ray diffraction techniques. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2587-2590. | 1.8 | 2 |
| 54 | Optical characterization of HfO ₂ thin films. <i>Thin Solid Films</i> , 2011, 519, 6085-6091. | 1.8 | 32 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | InGaAs and GaAsSb strain reducing layers covering InAs/GaAs quantum dots. Journal of Crystal Growth, 2010, 312, 1383-1387. | 1.5 | 17 |
| 56 | Plasma polymer films of tetravinylsilane modified by UV irradiation. Surface and Coatings Technology, 2010, 205, S177-S181. | 4.8 | 5 |
| 57 | Density of Mn interstitials in (Ga,Mn)As epitaxial layers determined by anomalous x-ray diffraction. Applied Physics Letters, 2010, 97, . | 3.3 | 6 |
| 58 | Effect of strain on the growth of InAs/GaSb superlattices: An x-ray diffraction study. Journal of Applied Physics, 2010, 107, . | 2.5 | 13 |
| 59 | Analysis of vacancy and interstitial nucleation kinetics in Si wafers during rapid thermal annealing. Journal of Physics Condensed Matter, 2009, 21, 105402. | 1.8 | 3 |
| 60 | Vacancies and Self-Interstitials Dynamics in Silicon Wafers. Solid State Phenomena, 2009, 156-158, 139-144. | 0.3 | 1 |
| 61 | Interdiffusion in Ge rich SiGe/Ge multilayers studied by <i>in situ</i> diffraction. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1775-1779. | 1.8 | 10 |
| 62 | X-ray diffraction on precipitates in Czochralski-grown silicon. Physica B: Condensed Matter, 2009, 404, 4626-4629. | 2.7 | 5 |
| 63 | Homogenization of CZ Si wafers by Tabula Rasa annealing. Physica B: Condensed Matter, 2009, 404, 4637-4640. | 2.7 | 5 |
| 64 | Development of oxide precipitates in silicon: calculation of the distribution function of the classical theory of nucleation by a nodal-points approximation. Journal of Physics Condensed Matter, 2007, 19, 496202. | 1.8 | 6 |
| 65 | Nonlinear Evolution of Surface Morphology in InAs/AlAs Superlattices via Surface Diffusion. Physical Review Letters, 2006, 96, 136102. | 7.8 | 8 |
| 66 | Morphological Instability in InAs/GaSb Superlattices due to Interfacial Bonds. Physical Review Letters, 2005, 95, 096104. | 7.8 | 14 |
| 67 | Spontaneous lateral modulation in short-period superlattices investigated by grazing-incidence x-ray diffraction. Physical Review B, 2005, 72, . | 3.2 | 2 |
| 68 | X-ray diffraction on laterally modulated (InAs) n \cdot (AlAs) m short-period superlattices. Journal of Applied Physics, 2004, 96, 4833-4838. | 2.5 | 5 |
| 69 | Effect of Hydrogen on the Properties of Amorphous Carbon Nitride Films. Advanced Materials Research, 0, 383-390, 3298-3304. | 0.3 | 2 |
| 70 | Homogeneous and Heterogeneous Nucleation of Oxygen in Si-CZ. Solid State Phenomena, 0, 178-179, 495-500. | 0.3 | 0 |
| 71 | Oxygen Precipitation Studied by X-Ray Diffraction Techniques. Solid State Phenomena, 0, 178-179, 325-330. | 0.3 | 0 |