

# M-A Husanu

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,192  
citations

331670

21  
h-index

395702

33  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2184  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017, 3, e1603266.	10.3	176
2	Dimensionality-Driven Metal-Insulator Transition in Spin-Orbit-Coupled $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} \text{SrIrO} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \rangle \rangle \rangle \rangle \rangle$ Physical Review Letters, 2017, 119, 256404.	7.8	81
3	Bioglass implant-coating interactions in synthetic physiological fluids with varying degrees of biomimicry. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 683-707.	6.7	66
4	Structural and biological evaluation of lignin addition to simple and silver-doped hydroxyapatite thin films synthesized by matrix-assisted pulsed laser evaporation. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 5333.	3.6	47
5	Spectro-microscopic photoemission evidence of charge uncompensated areas in $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3(001)$ layers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 509-520.	2.8	43
6	k-space imaging of anisotropic 2D electron gas in GaN/GaN high-electron-mobility transistor heterostructures. <i>Nature Communications</i> , 2018, 9, 2653.	12.8	43
7	Highly adherent bioactive glass thin films synthesized by magnetron sputtering at low temperature. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2693-2710.	3.6	40
8	Large positive linear magnetoresistance in the two-dimensional 2g electron gas at the EuO/SrTiO <sub>3</sub> interface. <i>Scientific Reports</i> , 2018, 8, 7721.	3.3	40
9	Substrate-target distance dependence of structural and optical properties in case of $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ films obtained by pulsed laser deposition. <i>Applied Surface Science</i> , 2011, 257, 5938-5943.	6.1	36
10	Fabrication of antimicrobial silver-doped carbon structures by combinatorial pulsed laser deposition. <i>International Journal of Pharmaceutics</i> , 2016, 515, 592-606.	5.2	34
11	Orbital Ordering of the Mobile and Localized Electrons at Oxygen-Deficient $\text{LaAlO}_3/\text{SrTiO}_3$ Interfaces. <i>ACS Nano</i> , 2018, 12, 7927-7935.	14.6	34
12	Spectroscopic perspective on the interplay between electronic and magnetic properties of magnetically doped topological insulators. <i>Physical Review B</i> , 2017, 96, .	3.2	32
13	Nanomechanical characterization of bioglass films synthesized by magnetron sputtering. <i>Thin Solid Films</i> , 2014, 553, 166-172.	1.8	28
14	Influence of hole depletion and depolarizing field on the electronic structure revealed by photoelectron spectrosc. <i>Physical Review B</i> , 2015, 92, .	3.2	28
15	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. <i>Materials</i> , 2015, 8, 3284-3305.	2.9	28
16	Epitaxial ferromagnetic samarium and samarium silicide synthesized on Si(001). <i>Journal of Materials Science</i> , 2012, 47, 7225-7234.	3.7	24
17	Double band inversion in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \hat{\Gamma}_\pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-Sn}$ : Appearance of topological surface states and the role of orbital composition. <i>Physical Review B</i> , 2017, 95, .	3.2	24
18	k-resolved electronic structure of buried heterostructure and impurity systems by soft-X-ray ARPES. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 236, 1-8.	1.7	24

#	ARTICLE	IF	CITATIONS
19	New bio-active, antimicrobial and adherent coatings of nanostructured carbon double-reinforced with silver and silicon by Matrix-Assisted Pulsed Laser Evaporation for medical applications. Applied Surface Science, 2018, 441, 871-883.	6.1	22
20	Do topology and ferromagnetism cooperate at the $\text{EuS}/\text{Cu}$ interface?. Physical Review B, 2019, 99, .	3.2	20
21	Radiofrequency plasma beam deposition of various forms of carbon based thin films and their characterization. Applied Surface Science, 2009, 255, 5378-5381.	6.1	21
22	Aging phenomena and wettability control of plasma deposited carbon nanowall layers. Plasma Processes and Polymers, 2017, 14, 1700023.	3.0	21
23	Multi-layer haemocompatible diamond-like carbon coatings obtained by combined radio frequency plasma enhanced chemical vapor deposition and magnetron sputtering. Journal of Materials Science: Materials in Medicine, 2013, 24, 2695-2707.	3.6	20
24	Thickness Influence on In Vitro Biocompatibility of Titanium Nitride Thin Films Synthesized by Pulsed Laser Deposition. Materials, 2016, 9, 38.	2.9	19
25	The interplay of work function and polarization state at the Schottky barriers height for Cu/BaTiO <sub>3</sub> interface. Applied Surface Science, 2020, 502, 144101.	6.1	19
26	Electron-polaron dichotomy of charge carriers in perovskite oxides. Communications Physics, 2020, 3, .	5.3	19
27	Electronic phase separation at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces tunable by oxygen deficiency. Physical Review Materials, 2019, 3, .	1.9	19
28	Band-Order Anomaly at the $\text{Al}_2\text{O}_3/\text{SrTiO}_3$ Interface Drives the Electron-Mobility Boost. ACS Nano, 2021, 15, 4347-4356.	14.6	18
29	Photoelectron spectroscopy and spectro-microscopy of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ (1 1 1) thin layers: Imaging ferroelectric domains with binding energy contrast. Applied Surface Science, 2015, 352, 73-81.	6.1	16
30	Atomic structure and reactivity of ferromagnetic Fe deposited on Si(001). Journal of Materials Science, 2012, 47, 1614-1620.	3.7	14
31	Structure, reactivity, electronic configuration and magnetism of samarium atomic layers deposited on Si(001) by molecular beam epitaxy. Applied Surface Science, 2013, 267, 106-111.	6.1	14
32	Non-covalent functionalization of carbon nanotubes: Experimental evidence for isolated and bundled tubes. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 66-69.	2.7	13
33	Gold nano-island arrays on silicon as SERS active substrate for organic molecule detection. Thin Solid Films, 2014, 550, 354-360.	1.8	13
34	Au-Ge bonding on a uniformly Au-covered Ge(001) surface. Physica Status Solidi - Rapid Research Letters, 2013, 7, 274-277.	2.4	11
35	Epitaxial growth of Au on Ge(001) surface: Photoelectron spectroscopy measurements and first-principles calculations. Thin Solid Films, 2014, 552, 241-249.	1.8	10
36	Impact on Ferroelectricity and Band Alignment of Gradually Grown Au on BaTiO <sub>3</sub> . Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900077.	2.4	9

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37	Vibrational and photoluminescence properties of composites based on zinc oxide and single-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2556-2564.	2.7	8
38	Surface topography to reflectivity mapping in two-dimensional photonic crystals designed in germanium. <i>Applied Surface Science</i> , 2015, 355, 1186-1191.	6.1	7
39	Electronic band structure of the buried SiO <sub>2</sub> /SiC interface investigated by soft x-ray ARPES. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	7
40	Electronic Structure of a Graphene-like Artificial Crystal of NdNiO <sub>3</sub> . <i>Nano Letters</i> , 2019, 19, 8311-8317.	9.1	7
41	Polarization-dependent magnetism of the NiO/BaTiO <sub>3</sub> interface. <i>Physical Review Materials</i> , 2020, 4, .	2.4	7
42	Dimensionality of mobile electrons at x-ray-irradiated LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interfaces. <i>Electronic Structure</i> , 2022, 4, 015003.	2.8	5
43	Dielectric and Ferroelectric Characterization of Ba <sub>0.95</sub> Tm <sub>0.05</sub> TiO <sub>3</sub> Ceramics Derived from Sol to Gel. <i>Journal of the American Ceramic Society</i> , 2011, 94, 736-741.	3.8	4
44	Spectroscopic Characterisation of Multiferroic Interfaces. <i>Springer Series in Materials Science</i> , 2018, , 245-281.	0.6	3
45	Probing single-unit-cell resolved electronic structure modulations in oxide superlattices with standing-wave photoemission. <i>Physical Review B</i> , 2019, 100, .	3.2	3
46	Robust Electronic Structure of Manganite-Buffered Oxide Interfaces with Extreme Mobility Enhancement. <i>ACS Nano</i> , 2022, 16, 6437-6443.	14.6	3
47	Impact of band-bending on the k-resolved electronic structure of Si-doped GaN. <i>Physical Review Research</i> , 2022, 4, .	3.6	3
48	Electron-phonon interaction in zinc oxide. Plasmon-optical phonon coupled modes. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 87-91.	1.5	2
49	Thermodynamic destabilization of Li-N-H system by Si addition. <i>Journal of Alloys and Compounds</i> , 2010, 505, 343-347.	5.5	2
50	Optimized silicon reinforcement of carbon coatings by pulsed laser technique for superior functional biomedical surfaces fabrication. <i>Biofabrication</i> , 2017, 9, 025029.	7.1	2
51	Correlation of optical reflectivity with numerical calculations for a two-dimensional photonic crystal designed in Ge. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	1
52	Fe•Si(001) Ferromagnetic Layers: Reactivity, Local Atomic Structure and Magnetism. , 2011, , .		0
53	Successful Cleaning and Study of Contamination of Si(001) in Ultrahigh Vacuum. , 2011, , .		0