

# Perspectives on oblique angle deposition of thin films: E

Progress in Materials Science

76, 59-153

DOI: [10.1016/j.pmatsci.2015.06.003](https://doi.org/10.1016/j.pmatsci.2015.06.003)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Design and Improvement of Devices for Preparing Film Materials. MATEC Web of Conferences, 2016, 67, 03018.	0.1	0
2	Investigating Polymer-Metal Interfaces by Grazing Incidence Small-Angle X-Ray Scattering from Gradients to Real-Time Studies. Nanomaterials, 2016, 6, 239.	1.9	31
3	A Full Vacuum Approach for the Fabrication of Hybrid White-Light-Emitting Thin Films and Wide-Range In Situ Tunable Luminescent Microcavities. Advanced Optical Materials, 2016, 4, 1124-1131.	3.6	3
4	High-Rate Deposition of Stoichiometric Compounds by Reactive Magnetron Sputtering at Oblique Angles. Plasma Processes and Polymers, 2016, 13, 960-964.	1.6	10
5	Non-Enzymatic Glucose Sensors Based on Nickel Nanoporous Thin Films Prepared by Physical Vapor Deposition at Oblique Angles for Beverage Industry Applications. Journal of the Electrochemical Society, 2016, 163, B704-B709.	1.3	8
6	Nanostructured Ti-Ta thin films synthesized by combinatorial glancing angle sputter deposition. Nanotechnology, 2016, 27, 495604.	1.3	13
7	Energy bandgap variation in oblique angle-deposited indium tin oxide. Applied Physics Letters, 2016, 108, .	1.5	18
8	Nanocolumnar association and domain formation in porous thin films grown by evaporation at oblique angles. Nanotechnology, 2016, 27, 395702.	1.3	23
9	Thin-film growth dynamics with shadowing effects by a phase-field approach. Physical Review B, 2016, 94, .	1.1	16
10	Vacuum template synthesis of multifunctional nanotubes with tailored nanostructured walls. Scientific Reports, 2016, 6, 20637.	1.6	14
11	Anisotropic contrast optical microscope. Review of Scientific Instruments, 2016, 87, 113701.	0.6	10
12	Non-enzymatic Glucose electrochemical sensor made of porous NiO thin films prepared by reactive magnetron sputtering at oblique angles. Electrochimica Acta, 2016, 201, 38-44.	2.6	95
13	The interaction between hybrid organic-inorganic halide perovskite and selective contacts in perovskite solar cells: an infrared spectroscopy study. Physical Chemistry Chemical Physics, 2016, 18, 13583-13590.	1.3	55
14	Nanoindentation and scratch resistance of multilayered TiO <sub>2</sub> -SiO <sub>2</sub> coatings with different nanocolumnar structures deposited by PV-OAD. Journal Physics D: Applied Physics, 2016, 49, 135104.	1.3	9
15	Conformable superoleophobic surfaces with multi-scale structures on polymer substrates. Journal of Materials Chemistry A, 2016, 4, 8272-8282.	5.2	22
16	Impact of the morphology and composition on the dealloying process of co-sputtered silver-aluminum alloy thin films. Physica Status Solidi (B): Basic Research, 2016, 253, 2167-2174.	0.7	11
17	Dual-Functional WO <sub>3</sub> Nanocolumns with Broadband Antireflective and High-Performance Flexible Electrochromic Properties. ACS Applied Materials & Interfaces, 2016, 8, 27107-27114.	4.0	61
18	Thin Metal Transparent Conductive Electrodes Formed by Oblique-Angle Deposition. Advanced Electronic Materials, 2016, 2, 1600154.	2.6	6

#	ARTICLE	IF	CITATIONS
19	Stoichiometric Control of SiO <sub>x</sub> Thin Films Grown by Reactive Magnetron Sputtering at Oblique Angles. <i>Plasma Processes and Polymers</i> , 2016, 13, 1242-1248.	1.6	7
20	Laser Treatment of Nanoparticulated Metal Thin Films for Ceramic Tile Decoration. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24880-24886.	4.0	9
21	Nanolaminated composite materials: structure, interface role and applications. <i>RSC Advances</i> , 2016, 6, 109361-109385.	1.7	50
22	Temperature dependence of electrical resistivity in oxidized vanadium films grown by the GLAD technique. <i>Surface and Coatings Technology</i> , 2016, 304, 476-485.	2.2	17
23	Critical angles in DC magnetron glad thin films. <i>Vacuum</i> , 2016, 131, 305-311.	1.6	40
24	Glancing angle deposition of Fe triangular nanoprisms consisting of vertically-layered nanoplates. <i>Journal of Crystal Growth</i> , 2016, 451, 113-119.	0.7	2
25	Structural, Morphological and Optical Properties of Sn <sub>3</sub> Sb <sub>2</sub> S <sub>6</sub> Thin Films Synthesized by Oblique Angle Deposition. <i>Journal of Electronic Materials</i> , 2016, 45, 5487-5496.	1.0	7
26	Electrical and optical properties of nickel thin-films fabricated by using oblique-angle deposition. <i>Journal of the Korean Physical Society</i> , 2016, 68, 839-841.	0.3	5
27	Designing self-standing silicon-copper composite helices as anodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 677, 228-236.	2.8	21
28	Synthesis, characterization and performance of robust poison-resistant ultrathin film yttria stabilized zirconia " nickel anodes for application in solid electrolyte fuel cells. <i>Journal of Power Sources</i> , 2016, 324, 679-686.	4.0	28
29	Controlled thermal oxidation of nanostructured vanadium thin films. <i>Materials Letters</i> , 2016, 174, 162-166.	1.3	8
30	Electrocatalytic System for the Simultaneous Hydrogen Production and Storage from Methanol. <i>ACS Catalysis</i> , 2016, 6, 1942-1951.	5.5	17
31	Optofluidic Modulation of Self-Associated Nanostructural Units Forming Planar Bragg Microcavities. <i>ACS Nano</i> , 2016, 10, 1256-1264.	7.3	27
32	Characterization and application of a new pH sensor based on magnetron sputtered porous WO <sub>3</sub> thin films deposited at oblique angles. <i>Electrochimica Acta</i> , 2016, 193, 24-31.	2.6	39
33	Light management: porous 1-dimensional nanocolumnar structures as effective photonic crystals for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4962-4970.	5.2	19
34	Free-Radical-Induced Grafting from Plasma Polymer Surfaces. <i>Chemical Reviews</i> , 2016, 116, 3975-4005.	23.0	168
35	Nanostructured Ti thin films by magnetron sputtering at oblique angles. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 045303.	1.3	54
36	Microstructural and magnetic properties of thin obliquely deposited films: A simulation approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 429, 45-51.	1.0	22

#	ARTICLE	IF	CITATIONS
37	Modeling the influence of incident angle and deposition rate on a nanostructure grown by oblique angle deposition. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 065302.	1.3	6
38	Plasmon-Sensitized Optoelectronic Properties of Au Nanoparticle-Assisted Vertically Aligned TiO <sub>2</sub> Nanowires by GLAD Technique. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 1127-1133.	1.6	16
39	Morphology and crystal texture in tilted columnar micro-structured titanium thin film coatings. <i>Thin Solid Films</i> , 2017, 627, 69-76.	0.8	12
40	Characterization of polyvinyl alcohol film doped with sodium molybdate as solid polymer electrolytes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 8928-8936.	1.1	20
41	Low-temperature Plasma Processing of Platinum Porphyrins for the Development of Metal Nanostructured Layers. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601233.	1.9	10
42	High performance flexible copper indium gallium selenide core-shell nanorod array photodetectors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	0.9	8
43	Advances in piezoelectric thin films for acoustic biosensors, acoustofluidics and lab-on-chip applications. <i>Progress in Materials Science</i> , 2017, 89, 31-91.	16.0	467
44	Nanocolumnar CdS thin films grown by glancing angle deposition from a sublimate vapor effusion source. <i>Journal of Applied Research and Technology</i> , 2017, 15, 271-277.	0.6	10
45	Glancing angle deposition of sculptured thin metal films at room temperature. <i>Nanotechnology</i> , 2017, 28, 385604.	1.3	23
46	Improvement of surface energy properties of PVC nanocomposites for enhancing electrical applications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 110, 78-83.	2.5	39
47	Influence of the sputtering pressure on the morphological features and electrical resistivity anisotropy of nanostructured titanium films. <i>Applied Surface Science</i> , 2017, 420, 681-690.	3.1	25
48	All-solid-state thin film battery based on well-aligned slanted LiCoO <sub>2</sub> nanowires fabricated by glancing angle deposition. <i>Applied Surface Science</i> , 2017, 412, 537-544.	3.1	22
50	Plasma assisted deposition of single and multistacked TiO <sub>2</sub> hierarchical nanotube photoanodes. <i>Nanoscale</i> , 2017, 9, 8133-8141.	2.8	16
51	Tailored Fano resonance and localized electromagnetic field enhancement in Ag gratings. <i>Scientific Reports</i> , 2017, 7, 44335.	1.6	3
52	Non-enzymatic hydrogen peroxide detection at NiO nanoporous thin film- electrodes prepared by physical vapor deposition at oblique angles. <i>Electrochimica Acta</i> , 2017, 235, 534-542.	2.6	60
53	1-dimensional TiO <sub>2</sub> nano-forests as photoanodes for efficient and stable perovskite solar cells fabrication. <i>Nano Energy</i> , 2017, 35, 215-222.	8.2	34
54	CdTe films grown using a rotating sublimate vapor effusion source in glancing angle deposition mode. <i>Materials Science in Semiconductor Processing</i> , 2017, 59, 23-28.	1.9	4
55	Localized surface plasmon resonance tuning via nanostructured gradient Ag surfaces. <i>Materials Letters</i> , 2017, 192, 119-122.	1.3	11

#	ARTICLE	IF	CITATIONS
56	Bottom-up sandwich-porous copper films: Facile construction, growth mechanism, and super-elastic property. <i>Materials and Design</i> , 2017, 135, 151-158.	3.3	2
57	Effect of Oblique-Angle Sputtered ITO Electrode in MAPbI <sub>3</sub> Perovskite Solar Cell Structures. <i>Nanoscale Research Letters</i> , 2017, 12, 556.	3.1	3
58	Anisotropic propagation imaging of elastic waves in oriented columnar thin films. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 484005.	1.3	8
59	Silver and gold nanoparticles in nanometric confined templates: synthesis and alloying within the anisotropic pores of oblique angle deposited films. <i>Nanotechnology</i> , 2017, 28, 485602.	1.3	3
60	Anisotropic optical properties of ZnS thin films with zigzag structure. <i>Bulletin of Materials Science</i> , 2017, 40, 897-905.	0.8	6
61	Morphogenesis of Biomineralized Calcitic Prismatic Tissue in Mollusca Fully Described by Classical Hierarchical Grain Boundary Motion. <i>Crystal Growth and Design</i> , 2017, 17, 5023-5027.	1.4	12
62	Structural control in porous/compact multilayer systems grown by magnetron sputtering. <i>Nanotechnology</i> , 2017, 28, 465605.	1.3	6
63	Micron-scale wedge thin films prepared by plasma enhanced chemical vapor deposition. <i>Plasma Processes and Polymers</i> , 2017, 14, 1700043.	1.6	2
64	Strain-induced Surface Micro/Nanosphere Structure: A New Technique to Design Mechanically Robust Superhydrophobic Surfaces with Rose Petal-like Morphology. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700497.	1.9	13
65	High performance novel gadolinium doped ceria/yttria stabilized zirconia/nickel layered and hybrid thin film anodes for application in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017, 363, 251-259.	4.0	24
66	Ellipsometric characterization and optical anisotropy of nanostructured CuIn <sub>3</sub> S <sub>5</sub> and CuIn <sub>5</sub> S <sub>8</sub> thin films. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 156-160.	1.9	7
67	Hybrid Oblique-Angle Deposited ITO/Silver Nanowire Transparent Conductive Electrodes for Brighter Light Emitters. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3690-3695.	1.6	2
68	Formation of NiO/YSZ functional anode layers of solid oxide fuel cells by magnetron sputtering. <i>Russian Journal of Electrochemistry</i> , 2017, 53, 670-676.	0.3	2
69	Tuning optical properties of CdTe films with nanocolumnar morphology grown using OAD for improving light absorption in thin-film solar cells. <i>Superlattices and Microstructures</i> , 2017, 111, 1126-1136.	1.4	5
70	A kinetic model for the characteristic surface morphologies of thin films by directional vapor deposition. <i>Journal of Applied Physics</i> , 2017, 122, 215306.	1.1	0
71	Alternative long-ranged charge optimized many-body potential for aluminium. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 485401.	0.7	0
72	Improving the hydrogen gas sensitivity of WO <sub>3</sub> thin films by modifying the deposition angle and thickness of different promoter layers. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29620-29628.	3.8	19
73	A study of thickness dependence on omnidirectional anti-reflection SiO <sub>2</sub> nanorod array fabricated by oblique angle deposition. <i>Materials Today: Proceedings</i> , 2017, 4, 6037-6042.	0.9	4

#	ARTICLE	IF	CITATIONS
74	Optical characterizations of tungsten oxide nanosculptures fabricated by oblique-angle deposition. <i>Materials Today: Proceedings</i> , 2017, 4, 6212-6217.	0.9	1
75	Formation of Subsurface W <sup>5+</sup> Species in Gasochromic Pt/WO <sub>3</sub> Thin Films Exposed to Hydrogen. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15719-15727.	1.5	40
76	Multiple-layered effective medium approximation approach to modeling environmental effects on alumina passivated highly porous silicon nanostructured thin films measured by in-situ Mueller matrix ellipsometry. <i>Applied Surface Science</i> , 2017, 421, 663-666.	3.1	7
77	Nanostructured TiN-based thin films by a novel and facile synthetic route. <i>Materials and Design</i> , 2017, 113, 142-148.	3.3	9
78	Cholesterol biosensing with a polydopamine-modified nanostructured platinum electrode prepared by oblique angle physical vacuum deposition. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 37-45.	4.0	38
79	Plasma polymers: From thin films to nanocolumnar coatings. <i>Thin Solid Films</i> , 2017, 630, 86-91.	0.8	8
80	Fabrication and characterization of TiO <sub>2</sub> antireflection coatings with gradient-index. , 2017, , .		0
81	Fabrication and characterisation of TiO <sub>2</sub> anti-reflection coatings with gradient index. <i>Micro and Nano Letters</i> , 2017, 12, 849-853.	0.6	3
82	Surface Enhanced Raman Scattering Substrates Made by Oblique Angle Deposition: Methods and Applications. <i>Coatings</i> , 2017, 7, 26.	1.2	24
83	Durable broadband ultralow index fluoropolymer antireflection coatings for plastic optics. <i>Optica</i> , 2017, 4, 239.	4.8	19
84	Structurally Oriented Nano-Sheets in Co Thin Films: Changing Their Anisotropic Physical Properties by Thermally-Induced Relaxation. <i>Materials</i> , 2017, 10, 1390.	1.3	5
85	Optical Gas Sensing of Ammonia and Amines Based on Protonated Porphyrin/TiO <sub>2</sub> Composite Thin Films. <i>Sensors</i> , 2017, 17, 24.	2.1	40
86	Ag Nanorods-Oxide Hybrid Array Substrates: Synthesis, Characterization, and Applications in Surface-Enhanced Raman Scattering. <i>Sensors</i> , 2017, 17, 1895.	2.1	8
87	Advance Deposition Techniques for Thin Film and Coating. , 0, , .		52
88	Small-Angle Light and X-ray Scattering in Nanosciences and Nanotechnology. , 2017, , 233-269.		1
90	Morphology of Thin Films Formed by Oblique Physical Vapor Deposition. <i>ACS Applied Nano Materials</i> , 2018, 1, 1370-1376.	2.4	45
91	High-aspect-ratio microstructures with versatile slanting angles on silicon by uniform metal-assisted chemical etching. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 055006.	1.5	5
92	Manipulating Refractive Index in Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9595-9601.	4.0	60

#	ARTICLE	IF	CITATIONS
93	Oblique angle deposition-induced anisotropy in Co <sub>2</sub> FeAl films. Journal of Magnetism and Magnetic Materials, 2018, 456, 353-357.	1.0	8
94	Dense Brushes of Tilted Metallic Nanorods Grown onto Stretchable Substrates for Optical Strain Sensing. ACS Applied Nano Materials, 2018, 1, 2347-2355.	2.4	25
95	Surface-enhanced Raman spectroscopy (SERS): an adventure from plasmonic metals to organic semiconductors as SERS platforms. Journal of Materials Chemistry C, 2018, 6, 5314-5335.	2.7	206
96	TiO <sub>2</sub> deposited by magnetron sputtering: a joint modelling and experimental study. Journal Physics D: Applied Physics, 2018, 51, 195202.	1.3	25
97	A theory of growing crystalline nanorods " Mode I. Surface Science, 2018, 674, 18-24.	0.8	3
98	Exploiting the dodecane and ozone sensing capabilities of nanostructured tungsten oxide films. Sensors and Actuators B: Chemical, 2018, 266, 773-783.	4.0	21
99	Silicon nanosprings fabricated by glancing angle deposition for ultra-compliant films and interfaces. Materials and Design, 2018, 144, 182-191.	3.3	12
100	Oriented Attachment: A Path to Columnar Morphology in Chemical Bath Deposited PbSe Thin Films. Crystal Growth and Design, 2018, 18, 1227-1235.	1.4	17
101	Boosted UV Sensitivity of Er-Doped In <sub>2</sub> O <sub>3</sub> Thin Films Using Plasmonic Ag Nanoparticle-Based Surface Texturing. Plasmonics, 2018, 13, 1105-1113.	1.8	13
102	Normal and grazing incidence pulsed laser deposition of nanostructured MoS <sub>2</sub> hydrogen evolution catalysts from a MoS <sub>2</sub> target. Optics and Laser Technology, 2018, 102, 74-84.	2.2	24
103	Effect of GLAD technique on optical properties of ZnS multilayer antireflection coatings. Materials Research Bulletin, 2018, 100, 265-274.	2.7	16
104	Nickel/Copper Bilayer-modified Screen Printed Electrode for Glucose Determination in Flow Injection Analysis. Electroanalysis, 2018, 30, 187-193.	1.5	5
105	Dye Giant Absorption and Light Confinement Effects in Porous Bragg Microcavities. ACS Photonics, 2018, 5, 984-991.	3.2	3
106	Self-Assembly of the Nonplanar Fe(III) Phthalocyanine Small-Molecule: Unraveling the Impact on the Magnetic Properties of Organic Nanowires. Chemistry of Materials, 2018, 30, 879-887.	3.2	9
107	Effect of angle deposition $\hat{\theta}$ on the structural, optical and electrical properties of copper oxide zigzag ( $\hat{\theta}$ , $\hat{\theta}$ ) nanostructures elaborated by glancing angle deposition. Thin Solid Films, 2018, 657, 61-69.	0.8	8
108	Relation between textured surface and diffuse reflectance of Cu films. AIP Conference Proceedings, 2018, , .	0.3	0
109	Crystalline Ti-nanostructures prepared by oblique angle deposition at room temperature. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, .	0.6	4
110	Photocatalytic activity of self-assembled porous TiO <sub>2</sub> nano-columns array fabricated by oblique angle sputter deposition. Materials Research Express, 2018, 5, 045018.	0.8	3

#	ARTICLE	IF	CITATIONS
111	Solar energy materials for thermal applications: A primer. <i>Solar Energy Materials and Solar Cells</i> , 2018, 180, 213-226.	3.0	46
112	Towards the Development of THz-Sensors for the Detection of African Trypanosomes. <i>Frequenz</i> , 2018, 72, 101-111.	0.6	3
113	Scalable Synthesis of Cholesteric Glassy Liquid Crystals. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4470-4473.	1.8	8
114	Robust polarization active nanostructured 1D Bragg Microcavities as optofluidic label-free refractive index sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 590-599.	4.0	14
115	Growth of nanocolumnar porous TiO <sub>2</sub> thin films by magnetron sputtering using particle collimators. <i>Surface and Coatings Technology</i> , 2018, 343, 172-177.	2.2	25
116	W-Cu sputtered thin films grown at oblique angles from two sources: Pressure and shielding effects. <i>Surface and Coatings Technology</i> , 2018, 343, 153-159.	2.2	14
117	Ultra-dense planar metallic nanowire arrays with extremely large anisotropic optical and magnetic properties. <i>Nano Research</i> , 2018, 11, 3519-3528.	5.8	18
118	Si nanospring films for compliant interfaces. <i>Journal of Materials Science</i> , 2018, 53, 5826-5844.	1.7	6
119	Electrochromic materials and devices for energy efficiency and human comfort in buildings: A critical review. <i>Electrochimica Acta</i> , 2018, 259, 1170-1182.	2.6	369
120	Microstructural engineering and use of efficient poison resistant Au-doped Ni-GDC ultrathin anodes in methane-fed solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 885-893.	3.8	23
121	30 nm X-ray focusing correlates oscillatory stress, texture and structural defect gradients across multilayered TiN-SiO <sub>x</sub> thin film. <i>Acta Materialia</i> , 2018, 144, 862-873.	3.8	51
122	In situ monitoring of the phenomenon of electrochemical promotion of catalysis. <i>Journal of Catalysis</i> , 2018, 358, 27-34.	3.1	12
123	A generalized theory of thin film growth. <i>Surface Science</i> , 2018, 669, 154-159.	0.8	7
124	Vapor Deposition Synthesis. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2018, , 103-144.	1.4	1
125	Influence of sputtering pressure on the nanostructure and the X-ray reflectivity of iridium coatings. <i>Surface and Coatings Technology</i> , 2018, 343, 101-107.	2.2	10
126	Study of ZrO <sub>2</sub> thin films deposited at glancing angle by radio frequency magnetron sputtering under varying substrate rotation. <i>Thin Solid Films</i> , 2018, 645, 290-299.	0.8	20
127	Cadmium based II-VI Semiconducting Nanomaterials. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2018, , .	1.4	5
128	Investigation on the AC and DC electrical conductivity of Sn <sub>3</sub> Sb <sub>2</sub> S <sub>6</sub> thin films prepared by glancing angle deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2907-2914.	1.1	6



#	ARTICLE	IF	CITATIONS
129	Fabrication of omnidirectional anti-reflection and super hydrophilicity SiO <sub>2</sub> nanorods by oblique angle deposition. <i>Materials Today: Proceedings</i> , 2018, 5, 14140-14144.	0.9	2
130	Tutorial: The systematics of ion beam sputtering for deposition of thin films with tailored properties. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	60
131	Simulation of high efficiency SnS-based solar cells with SCAPS. <i>Solar Energy</i> , 2018, 176, 520-525.	2.9	108
132	Glancing Angle Deposition for Biosensing Applications. , 2018, , 129-137.		2
133	The Role of Surface Recombination on the Performance of Perovskite Solar Cells: Effect of Morphology and Crystalline Phase of TiO <sub>2</sub> Contact. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801076.	1.9	30
135	Stacked and Core-Shell Pt:Ni/WC Nanorod Array Electrocatalyst for Enhanced Oxygen Reduction Reaction in Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6115-6122.	2.5	11
136	Current-Induced Spin-Orbit Torque and Field-Free Switching in $\text{Mo}$ -Based Magnetic Heterostructures. <i>Physical Review Applied</i> , 2018, 10, .	1.5	66
137	Scalable Fabrication of Core-Shell Sb@Co(OH) <sub>2</sub> Nanosheet Anodes for Advanced Sodium-Ion Batteries via Magnetron Sputtering. <i>ACS Nano</i> , 2018, 12, 11678-11688.	7.3	35
138	Nanocolumnar TiN thin film growth by oblique angle sputter-deposition: Experiments vs. simulations. <i>Materials and Design</i> , 2018, 160, 338-349.	3.3	44
139	Physical vapor deposition of Ag nanoparticles through shadowing and re-emission effects. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, 051802.	0.6	4
140	Facile method for decorations of Au nanoparticles on TiO <sub>2</sub> nanorod arrays toward high-performance recyclable SERS substrates. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 102-113.	4.0	38
141	Nanoporous thin films obtained by oblique angle deposition of aluminum on porous surfaces. <i>Surface and Coatings Technology</i> , 2018, 347, 350-357.	2.2	7
142	Effect of SnS addition on the morphological and optical properties of (SnS) <sub>m</sub> (Sb <sub>2</sub> S <sub>3</sub> ) <sub>n</sub> nano-rods elaborated by glancing angle deposition. <i>Physica B: Condensed Matter</i> , 2018, 546, 33-43.	1.3	20
143	Comparison of magnetic and structural properties of permalloy Ni <sub>80</sub> Fe <sub>20</sub> grown by dc and high power impulse magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 285005.	1.3	16
144	Nanostructural Analysis of Porous Oblique Angle Deposited (OAD) Multilayer Systems by Grazing-Incidence Small-Angle X-Ray Scattering. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800530.	1.9	6
145	Comparative study of sculptured metallic thin films deposited by oblique angle deposition at different temperatures. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 954-962.	1.5	15
146	Processing and characterization of a free-standing bulk polycrystalline GaN layer. <i>Journal of Alloys and Compounds</i> , 2018, 769, 161-166.	2.8	2
147	A Thin Film Flexible Supercapacitor Based on Oblique Angle Deposited Ni/NiO Nanowire Arrays. <i>Nanomaterials</i> , 2018, 8, 422.	1.9	14

#	ARTICLE	IF	CITATIONS
148	Europium monoxide nanocrystalline thin films with high near-infrared transparency. Applied Surface Science, 2018, 456, 980-984.	3.1	12
149	Substrate-induced changes of structural and optical properties of SnS films prepared by glancing angle deposition. Thin Solid Films, 2018, 663, 85-92.	0.8	15
150	Laser-induced coloration of ceramic tiles covered with magnetron sputtered precursor layers. Journal of the American Ceramic Society, 2018, 102, 1589.	1.9	1
151	Anisotropic conductivity enhancement in inclined W-Cu columnar films. Materials Letters, 2018, 232, 126-129.	1.3	5
152	Glancing Angle Deposition Effect on Structure and Light-Induced Wettability of RF-Sputtered TiO <sub>2</sub> Thin Films. Micromachines, 2018, 9, 389.	1.4	25
153	Molecular dynamics simulation study of the microstructure of a-Si:H thin film grown by oblique-angle deposition. Physica B: Condensed Matter, 2018, 545, 80-85.	1.3	4
154	Nano-sculptured Janus-like TiAg thin films obliquely deposited by GLAD co-sputtering for temperature sensing. Nanotechnology, 2018, 29, 355706.	1.3	22
155	White paper on the future of plasma science for optics and glass. Plasma Processes and Polymers, 2019, 16, 1700250.	1.6	22
156	Noble Metal Nanoparticles: Synthesis and Optical Properties. , 2019, , 61-88.		22
157	Nanostructured porous CrN thin films by oblique angle magnetron sputtering for symmetric supercapacitors. Journal of Alloys and Compounds, 2019, 806, 953-959.	2.8	27
158	Bipolar Analog Memristive Switching of In <sub>2</sub> O <sub>3</sub> Using Al Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 8126-8134.	0.9	5
159	Assembly engineering of Ag@ZnO hierarchical nanorod arrays as a pathway for highly reproducible surface-enhanced Raman spectroscopy applications. Journal of Alloys and Compounds, 2019, 808, 151735.	2.8	31
160	Antifungal activity of ZnO thin films prepared by glancing angle deposition. Thin Solid Films, 2019, 687, 137461.	0.8	14
161	Tailoring the structural and magnetic properties of Ni zigzag nanostructures using different deposition angles. Materials Research Bulletin, 2019, 119, 110540.	2.7	7
162	Surface oxidation of amorphous Si and Ge slanted columnar and mesoporous thin films: Evidence, scrutiny and limitations for infrared optics. Applied Surface Science, 2019, 493, 807-817.	3.1	8
163	Sputter deposition of porous thin films from metal/NaCl powder targets. Applied Physics Letters, 2019, 115, 041601.	1.5	2
164	Deposition of highly transparent and conductive Ga-doped zinc oxide films on tilted substrates by atmospheric pressure plasma jet. Journal of Alloys and Compounds, 2019, 802, 458-466.	2.8	15
165	Tuning filtering properties of SnS films deposited on Glass/ITO substrate using glancing angle deposition technique. Materials Research Express, 2019, 6, 096415.	0.8	4

#	ARTICLE	IF	CITATIONS
166	AZO nanocolumns grown by GLAD: adjustment of optical and structural properties. <i>Materials Research Express</i> , 2019, 6, 1050b9.	0.8	6
167	Tailoring the structural, electrical, optical and wettability properties of ZnSe films by oblique angle thermal evaporation. <i>Materials Research Express</i> , 2019, 6, 116451.	0.8	1
168	A Cr Anti-Sticking Layer for Improving Mold Release Quality in Electrochemical Replication of PVC Optical Molds. <i>Micromachines</i> , 2019, 10, 702.	1.4	2
169	Sodium ion storage performance of magnetron sputtered WO <sub>3</sub> thin films. <i>Electrochimica Acta</i> , 2019, 321, 134669.	2.6	17
170	Texture and Stress Evolution in HfN Films Sputter-Deposited at Oblique Angles. <i>Coatings</i> , 2019, 9, 712.	1.2	20
171	A novel Ag nanoparticles/TiO <sub>2</sub> nanowires-based photodetector and glucose concentration detection. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	21
172	Graphene Formation Mechanism by the Electrochemical Promotion of a Ni Catalyst. <i>ACS Catalysis</i> , 2019, 9, 11447-11454.	5.5	5
173	THz near-field inspection of metamaterials for bio-sensing applications featuring single-resonator read-out capability. , 2019, , .		1
174	Kinetic energy-induced growth regimes of nanocolumnar Ti thin films deposited by evaporation and magnetron sputtering. <i>Nanotechnology</i> , 2019, 30, 475603.	1.3	13
175	Facile tilted sputtering process (TSP) for enhanced H <sub>2</sub> S gas response over selectively loading Pt nanoparticles on SnO <sub>2</sub> thin films. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 127009.	4.0	22
176	Observation of increased nanostructure cone growth on Cr due to grazing-incidence Ta seed atom deposition in a He plasma. <i>Journal of Applied Physics</i> , 2019, 126, 073301.	1.1	0
177	Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle. <i>Electrochimica Acta</i> , 2019, 324, 134890.	2.6	35
178	Effect of Microstructure Control of Thin Film Yttria Stabilized Zirconia Electrolyte for Solid Oxide Fuel Cells by Adjusting Oblique Angle and Target Substrate Distance of Sputtering Process. <i>ECS Transactions</i> , 2019, 91, 1097-1104.	0.3	3
179	On the Large Near-Field Enhancement on Nanocolumnar Gold Substrates. <i>Scientific Reports</i> , 2019, 9, 13933.	1.6	8
180	Cu <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> ultra-thin film as efficient anodic catalysts for anion exchange membrane water electrolyzers. <i>Journal of Power Sources</i> , 2019, 415, 136-144.	4.0	40
181	Glancing-Angle Deposition of Nanostructures on an Implant Material Surface. <i>Nanomaterials</i> , 2019, 9, 60.	1.9	20
182	Characterization of nanocrystalline-nanoporous nickel oxide thin films prepared by reactive advanced gas deposition. <i>Materials Chemistry and Physics</i> , 2019, 227, 98-104.	2.0	10
183	Scalable Manufacturing of Single Nanowire Devices Using Crack-Defined Shadow Mask Lithography. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8217-8226.	4.0	21

#	ARTICLE	IF	CITATIONS
184	Nanostructure and Physical Properties Control of Indium Tin Oxide Films Prepared at Room Temperature through Ion Beam Sputtering Deposition at Oblique Angles. Journal of Physical Chemistry C, 2019, 123, 14036-14046.	1.5	12
185	Size and shape control of a variety of metallic nanostructures using tilted, rotating evaporation and lithographic lift-off techniques. Scientific Reports, 2019, 9, 7682.	1.6	16
186	Disordered and Densely Packed ITO Nanorods as an Excellent Lithography-Free Optical Solar Reflector Metasurface. ACS Photonics, 2019, 6, 1812-1822.	3.2	55
187	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{Cr} \langle \text{mml:math} \rangle$ -induced Perpendicular Magnetic Anisotropy and Field-Free Spin-Orbit-Torque Switching. Physical Review Applied, 2019, 11, .	1.5	46
188	The strong effect on MEMS switch reliability of film deposition conditions and electrode geometry. Microelectronics Reliability, 2019, 98, 131-143.	0.9	14
189	Crystallinity and texture of molybdenum thin films obliquely deposited at room temperature. Thin Solid Films, 2019, 685, 8-16.	0.8	4
190	SiOx by magnetron sputtered revisited: Tailoring the photonic properties of multilayers. Applied Surface Science, 2019, 488, 791-800.	3.1	13
191	Long-range chiral exchange interaction in synthetic antiferromagnets. Nature Materials, 2019, 18, 703-708.	13.3	83
192	Accretion and photodesorption of CO ice as a function of the incident angle of deposition. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5519-5525.	1.6	10
193	Controlling the charge transport mode in permalloy films using oblique angle deposition. Journal of Magnetism and Magnetic Materials, 2019, 484, 430-436.	1.0	8
194	Cylindrical films for electronics in low background physics searches. Journal of Instrumentation, 2019, 14, P05005-P05005.	0.5	1
195	Surface-Enhanced Raman Spectroscopy (SERS) Study Using Oblique Angle Deposition of Ag Using Different Substrates. Materials, 2019, 12, 1581.	1.3	17
196	Oblique angle deposition of nanocolumnar TiZrN films via reactive magnetron co-sputtering technique: The influence of the Zr target powers. Current Applied Physics, 2019, 19, 894-901.	1.1	25
197	Optical characterization of nano-structured Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films deposited by GLAD technique. Chinese Journal of Physics, 2019, 60, 193-207.	2.0	8
198	Physical and micro-nano-structure properties of chromium nitride coating deposited by RF sputtering using dynamic glancing angle deposition. Surface and Coatings Technology, 2019, 372, 268-277.	2.2	20
199	Enhanced light detection by annealed vertically aligned CeO <sub>2</sub> nanorods. Materials Research Bulletin, 2019, 117, 103-112.	2.7	10
200	Flexible and Stretchable Photonic Sensors Based on Modulation of Light Transmission. Advanced Optical Materials, 2019, 7, 1900329.	3.6	49
201	A dynamic thermoregulatory material inspired by squid skin. Nature Communications, 2019, 10, 1947.	5.8	109

#	ARTICLE	IF	CITATIONS
202	Li <sub>2</sub> MnO <sub>3</sub> Thin Films with Tilted Domain Structure as Cathode for Li-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 3461-3468.	2.5	11
203	Crystallographically oriented porous ZnO nanostructures with visible-blind photoresponse: Controlling the growth and optical properties. Materialia, 2019, 6, 100326.	1.3	7
204	When is Lonely Adatom Model valid?. Surface Science, 2019, 682, 60-63.	0.8	0
205	Nanoporous SiO coated amorphous silicon anode material with robust mechanical behavior for high-performance rechargeable Li-ion batteries. Nano Materials Science, 2019, 1, 70-76.	3.9	26
206	Partially Ionized Beam Growth of Tungsten Oxide Nanowires by Oblique Angle Deposition. Crystal Growth and Design, 2019, 19, 2706-2711.	1.4	4
207	Influence of normal velocity on microstructure and density of films produced by nanoparticle impact. AIP Advances, 2019, 9, 035226.	0.6	6
208	Black vanadium moth-eye structure fabricated by oblique deposition for solar light absorption. Applied Physics Express, 2019, 12, 045006.	1.1	1
209	Impedance spectroscopy characterization of anisotropic nano-sculptured copper oxide Cu <sub>2</sub> O thin films for optoelectronic applications. Semiconductor Science and Technology, 2019, 34, 075026.	1.0	5
210	Zigzag or spiral-shaped nanostructures improve mechanical stability in yttria-stabilized zirconia membranes for micro-energy conversion devices. Nano Energy, 2019, 59, 674-682.	8.2	3
211	Nanofibrillar Si Helices for Low-Stress, High-Capacity Li <sup>+</sup> Anodes with Large Affine Deformations. ACS Applied Materials & Interfaces, 2019, 11, 11715-11721.	4.0	3
212	Nanoislands as plasmonic materials. Nanoscale, 2019, 11, 8651-8664.	2.8	39
213	Glancing Angle Deposition of Zn-Doped Calcium Phosphate Coatings by RF Magnetron Sputtering. Coatings, 2019, 9, 220.	1.2	25
214	Gold-Nanoparticle-Decorated Titanium Nitride Electrodes Prepared by Glancing-Angle Deposition for Sensing Applications. ACS Applied Nano Materials, 2019, 2, 1562-1569.	2.4	17
215	Electrochromic glazing for energy efficient buildings. , 2019, , 467-501.		4
216	2D compositional self-patterning in magnetron sputtered thin films. Applied Surface Science, 2019, 480, 115-121.	3.1	3
217	Nanostructured Ti <sub>1-x</sub> Cu <sub>x</sub> thin films with tailored electrical and morphological anisotropy. Thin Solid Films, 2019, 672, 47-54.	0.8	10
218	Humidity sensor based on heterogeneous CoTiO <sub>3</sub> /TiO <sub>2</sub> film with vertically aligned nanocrystalline structure. Vacuum, 2019, 163, 292-300.	1.6	31
219	Longitudinal and transverse magnetoresistance in films with tilted out-of-plane magnetic anisotropy. Physical Review B, 2019, 99, .	1.1	11

#	ARTICLE	IF	CITATIONS
220	Nanoplasmonic response of porous Au-TiO <sub>2</sub> thin films prepared by oblique angle deposition. <i>Nanotechnology</i> , 2019, 30, 225701.	1.3	33
221	Improving Thickness Uniformity of Mo/Si Multilayers on Curved Spherical Substrates by a Masking Technique. <i>Coatings</i> , 2019, 9, 851.	1.2	8
222	Enhanced catalytic activity of edge-exposed 1T phase WS <sub>2</sub> grown directly on a WO <sub>3</sub> nanohelical array for water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26378-26384.	5.2	23
223	On manufacturing multilayer-like nanostructures using misorientation gradients in PVD films. <i>Scientific Reports</i> , 2019, 9, 15898.	1.6	19
224	The uniformity of TiN films deposited on the inner surfaces of a hemispherical workpiece by high-power pulsed magnetron sputtering. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950329.	1.0	5
225	Tuning optical properties of ITO films grown by rf sputtering: Effects of oblique angle deposition and thermal annealing. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 2566-2576.	1.7	10
226	Effects of oblique angle deposition on structural, electrical and wettability properties of Bi thin films grown by thermal evaporation. <i>Applied Surface Science</i> , 2019, 463, 45-51.	3.1	26
227	A convenient photopolarimeter based on a polarization sensitive metamaterial. <i>Optics Communications</i> , 2019, 430, 342-347.	1.0	7
228	Liquid switchable radial polarization converters made of sculptured thin films. <i>Applied Surface Science</i> , 2019, 475, 230-236.	3.1	3
229	Environmentally Tight TiO <sub>2</sub> â€“SiO <sub>2</sub> Porous 1Dâ€“Photonic Structures. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801212.	1.9	6
230	Effect of magnetron sputtered anode functional layer on the anode-supported solid oxide fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30636-30643.	3.8	9
231	Growth of nanocolumnar thin films on patterned substrates at oblique angles. <i>Plasma Processes and Polymers</i> , 2019, 16, 1800135.	1.6	11
232	Anisotropy of fracture toughness in nanostructured ceramics controlled by grain boundary design. <i>Materials and Design</i> , 2019, 161, 80-85.	3.3	26
233	Optimization and Contact Reliability of TiN-Coated Microswitches in Various Gas Environments. <i>Journal of Microelectromechanical Systems</i> , 2019, 28, 95-106.	1.7	5
234	Conformal covering and optical response of pulsed laser deposited bidimensional Ag nanoparticle arrays. <i>Applied Surface Science</i> , 2019, 473, 442-448.	3.1	2
235	3D core-multishell piezoelectric nanogenerators. <i>Nano Energy</i> , 2019, 58, 476-483.	8.2	39
236	Electrical resistivity and elastic wave propagation anisotropy in glancing angle deposited tungsten and gold thin films. <i>Applied Surface Science</i> , 2019, 475, 606-614.	3.1	20
237	Maximizing the Current Output in Self-Aligned Grapheneâ€“InAsâ€“Metal Vertical Transistors. <i>ACS Nano</i> , 2019, 13, 847-854.	7.3	23

#	ARTICLE	IF	CITATIONS
238	Competition Between Kinetics and Thermodynamics During the Growth of Faceted Crystal by Phase Field Modeling. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800518.	0.7	23
239	Effect of electron injection on the parameters of a pulsed planar magnetron. <i>Vacuum</i> , 2019, 159, 200-203.	1.6	2
240	Investigation of structural and optical properties of oblique angle sputter deposited barium strontium titanate nanostructures. <i>Materials Research Express</i> , 2019, 6, 025009.	0.8	1
241	Binder and conductive additive-free NiO nanorod electrodes prepared by the sputtering method for Li-ion battery anodes with an ultra-long life cycle. <i>Journal of Solid State Chemistry</i> , 2019, 269, 132-137.	1.4	17
242	Factors influencing the nanostructure of obliquely deposited thin films. <i>Surface Engineering</i> , 2019, 35, 227-233.	1.1	11
243	Development of residual stress and uniaxial magnetic anisotropy during growth of polycrystalline Co film. <i>Materials Research Bulletin</i> , 2020, 121, 110616.	2.7	8
244	Effect of silver, gold, and platinum substrates on structural and optical properties of tilted nanocolumnar SnS films. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2030-2039.	1.1	6
245	Growth angle-dependent tunable work function and optoelectronic properties of MoOx thin films. <i>Applied Surface Science</i> , 2020, 507, 144958.	3.1	28
246	Positron annihilation analysis of nanopores and growth mechanism of oblique angle evaporated TiO <sub>2</sub> and SiO <sub>2</sub> thin films and multilayers. <i>Microporous and Mesoporous Materials</i> , 2020, 295, 109968.	2.2	8
247	Enhancing electrochemical performance of thin film lithium ion battery via introducing tilted metal nanopillars as effective current collectors. <i>Nano Energy</i> , 2020, 69, 104381.	8.2	18
248	Nonlinear elasticity in a meta-film comprising nano-helices. <i>Thin Solid Films</i> , 2020, 695, 137749.	0.8	1
249	Growth angle-dependent evolution of morphology and magnetic properties of Co films on highly ordered self-organized Ge substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166198.	1.0	3
250	Effect of the period of the substrate oscillation in the dynamic glancing angle deposition technique: A columnar periodic nanostructure formation. <i>Surface and Coatings Technology</i> , 2020, 383, 125237.	2.2	10
251	Highly Selective Dimethylamine Sensing Performance of TiO <sub>2</sub> Thin Films at Room Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3131-3139.	0.9	7
252	Advances in the implementation of PVD-based techniques for the preparation of metal catalysts for the hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33288-33309.	3.8	7
253	Robust anti-icing superhydrophobic aluminum alloy surfaces by grafting fluorocarbon molecular chains. <i>Applied Materials Today</i> , 2020, 21, 100815.	2.3	37
254	The effect of oblique-angle sputtering on large area deposition: a unidirectional ultrathin Au plasmonic film growth design. <i>Nanotechnology</i> , 2020, 31, 445701.	1.3	2
255	Enhancement of Adhesion Force and Surface Conductivity of Graphene Oxide Films Using Different Solvents. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 762, 012001.	0.3	6

#	ARTICLE	IF	CITATIONS
256	Influence of iron and nitrogen ion beam exposure on the gas sensing properties of CuO nanowires. Sensors and Actuators B: Chemical, 2020, 321, 128579.	4.0	16
257	Improved physicochemical properties of peanut protein isolate glycosylated by atmospheric pressure cold plasma (ACP) treatment. Food Hydrocolloids, 2020, 109, 106124.	5.6	32
258	Wetting Properties of Transparent Anatase/Rutile Mixed Phase Glancing Angle Magnetron Sputtered Nano-TiO <sub>2</sub> Films. Micromachines, 2020, 11, 616.	1.4	11
259	Multi-scale interface design of strong and damage resistant hierarchical nanostructured materials. Materials and Design, 2020, 196, 109169.	3.3	16
260	Sputter-deposited low-stress boron carbide films. Journal of Applied Physics, 2020, 128, .	1.1	11
261	Effects of oblique angle deposition on surface wettability of Sn metal thin films. AIP Conference Proceedings, 2020, , .	0.3	0
262	Surface wettability studies on aligned gold nanorod array substrate. , 2020, , .		0
263	Bowl-like Nanoreactors Composed of Packed Gold Nanoparticles Surrounded with Silica Nanosheets for a Photothermally Enhancing Enzymatic Reaction. ACS Applied Nano Materials, 2020, 3, 11465-11473.	2.4	3
264	Special Issue "Magnetron Sputtering Deposited Thin Films and Its Applications". Coatings, 2020, 10, 1072.	1.2	4
265	Nanostructured shrub-like bimetallic Pt <sub>x</sub> Rh <sub>100-x</sub> alloys grown on carbon paper for the oxidative removal of adsorbed carbon monoxide for ethanol fuel cells reaction. Electrochimica Acta, 2020, 355, 136823.	2.6	7
266	Growth and characterization of hydrophobic anti-reflection CaF <sub>2</sub> films. Journal of Materials Science: Materials in Electronics, 2020, 31, 14241-14248.	1.1	3
267	Effect of Oblique Versus Normal Deposition on the Properties of Perpendicularly Magnetized FePd Thin Films. IEEE Magnetics Letters, 2020, 11, 1-5.	0.6	2
268	Glancing Angle Deposition and Growth Mechanism of Inclined AlN Nanostructures Using Reactive Magnetron Sputtering. Coatings, 2020, 10, 768.	1.2	19
269	Post deposition annealing effect on the electrical properties of In <sub>2</sub> -Ga <sub>2</sub> O <sub>3</sub> Nanowire. Journal of Materials Science: Materials in Electronics, 2020, 31, 20378-20386.	1.1	7
270	Magnetron sputtering enabled synthesis of nanostructured materials for electrochemical energy storage. Journal of Materials Chemistry A, 2020, 8, 20260-20285.	5.2	25
271	Stress distribution in highly porous SiO <sub>2</sub> films: results of the molecular dynamics simulation. IOP Conference Series: Materials Science and Engineering, 2020, 904, 012004.	0.3	0
272	Conformality of PVD shell layers on GLAD-nanorods investigated by Monte Carlo simulations. MRS Advances, 2020, 5, 2241-2248.	0.5	0
273	Voltage-Controlled Deblocking of Magnetization Reversal in Thin Films by Tunable Domain Wall Interactions and Pinning Sites. Advanced Electronic Materials, 2020, 6, 2000406.	2.6	20



#	ARTICLE	IF	CITATIONS
274	Microstructure-Induced Anisotropic Optical Properties of YF <sub>3</sub> Columnar Thin Films Prepared by Glancing Angle Deposition. <i>Nanomaterials</i> , 2020, 10, 2413.	1.9	3
275	Fabrication of Porous Anodic Alumina (PAA) by High-Temperature Pulse-Anodization: Tuning the Optical Characteristics of PAA-Based DBR in the NIR-MIR Region. <i>Materials</i> , 2020, 13, 5622.	1.3	8
276	Spin-orbit torques in structures with asymmetric dusting layers. <i>Applied Physics Letters</i> , 2020, 117, 182403.	1.5	13
277	Oblique angle initiated chemical vapor deposition for patterning film growth. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	3
278	Deposition geometry effect on structural, morphological and optical properties of Nb <sub>2</sub> O <sub>5</sub> nanostructure prepared by hydrothermal technique. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	36
279	Indentation modulus and microstructural properties of Zirconia-Alumina-Magnesia composite thin films deposited by electron beam evaporation under varying oxygen pressure. <i>Thin Solid Films</i> , 2020, 712, 138310.	0.8	2
280	Optical and nanostructural insights of oblique angle deposited layers applied for photonic coatings. <i>Applied Surface Science</i> , 2020, 520, 146312.	3.1	7
281	Chemistry and Electrocatalytic Activity of Nanostructured Nickel Electrodes for Water Electrolysis. <i>ACS Catalysis</i> , 2020, 10, 6159-6170.	5.5	48
282	Dry Electrodes for Surface Electromyography Based on Architected Titanium Thin Films. <i>Materials</i> , 2020, 13, 2135.	1.3	26
283	Influence of oblique angle deposition on Cu-substituted hydroxyapatite nano-roughness and morphology. <i>Surface and Coatings Technology</i> , 2020, 394, 125883.	2.2	19
284	Exploring the effect on the columnar structure and porosity of the synthesized Be films by oblique angle deposition in magnetron sputtering. <i>Physica B: Condensed Matter</i> , 2020, 590, 412221.	1.3	3
285	Comparison of ZnO nanowires grown on e-beam evaporated Ag and ZnO seed layers. <i>Nanoscale Advances</i> , 2020, 2, 2814-2823.	2.2	12
286	Chiral Nanoceramics. <i>Advanced Materials</i> , 2020, 32, e1906738.	11.1	56
287	Aggregation of Silica Nanoparticles in Sol-Gel Processes to Create Optical Coatings with Controllable Ultralow Refractive Indices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16887-16895.	4.0	21
288	The interface boundaries channel-based method for improving the hydrophobicity of semimetal films. <i>Applied Surface Science</i> , 2020, 524, 146097.	3.1	4
289	Strong Light-Matter Interactions in Au Plasmonic Nanoantennas Coupled with Prussian Blue Catalyst on BiVO <sub>4</sub> for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2020, 13, 2577-2588.	3.6	34
290	Combined Modeling of the Optical Anisotropy of Porous Thin Films. <i>Coatings</i> , 2020, 10, 517.	1.2	7
291	Study of columnar growth, texture development and wettability of reactively sputter-deposited TiN, ZrN and HfN thin films at glancing angle incidence. <i>Surface and Coatings Technology</i> , 2020, 399, 126130.	2.2	30

#	ARTICLE	IF	CITATIONS
292	Supported Porous Nanostructures Developed by Plasma Processing of Metal Phthalocyanines and Porphyrins. <i>Frontiers in Chemistry</i> , 2020, 8, 520.	1.8	3
293	Effects of substrates on the crystalline growth and UV photosensitivity of glancing angle deposited porous ZnO nanostructures. <i>Sensors and Actuators A: Physical</i> , 2020, 313, 112140.	2.0	5
294	Edible and Nutritive Electronics: Materials, Fabrications, Components, and Applications. <i>Advanced Materials Technologies</i> , 2020, 5, 2000100.	3.0	37
295	Surface-enhanced Raman spectroscopy for polychlorinated biphenyl detection: Recent developments and future prospects. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 125, 115836.	5.8	28
296	Biaxially Textured Titanium Thin Films by Oblique Angle Deposition: Conditions and Growth Mechanisms. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900636.	0.8	4
297	An investigation on structural and optical properties of nanocolumnar ZnTe thin films grown by glancing angle technique. <i>Materials Research Express</i> , 2020, 7, 026419.	0.8	12
298	Effect of insertion of bathocuproine buffer layer at grating-structured cathode-organic-layer interface in bulk-heterojunction solar cells. <i>AIP Advances</i> , 2020, 10, 015144.	0.6	3
299	Facile preparation of ZnO nanostructured thin films via oblique angle ultrasonic mist vapor deposition (OA-UMVD): a systematic investigation. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
300	Influence of Thickness and Sputtering Pressure on Electrical Resistivity and Elastic Wave Propagation in Oriented Columnar Tungsten Thin Films. <i>Nanomaterials</i> , 2020, 10, 81.	1.9	19
301	Scalable structural refining via altering working pressure and in-situ electrochemically-driven Cu-Sb alloying of magnetron sputtered Sb anode in sodium ion batteries. <i>Chemical Engineering Journal</i> , 2020, 388, 124299.	6.6	21
302	A 4-view imaging to reveal microstructural differences in obliquely sputter-deposited tungsten films. <i>Materials Letters</i> , 2020, 264, 127381.	1.3	13
303	Peroxidase-Like Behavior of Ni Thin Films Deposited by Glancing Angle Deposition for Enzyme-Free Uric Acid Sensing. <i>ACS Omega</i> , 2020, 5, 9123-9130.	1.6	24
304	Tailored electrochemical behavior of ta-C film by glancing angle deposition. <i>Applied Surface Science</i> , 2020, 516, 146115.	3.1	9
305	Microwave-assisted evolution of WO <sub>3</sub> and WS <sub>2</sub> /WO <sub>3</sub> hierarchical nanotrees. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9654-9660.	5.2	18
306	Effect of surface nanopatterning on the thermoelectric properties of bismuth antimony telluride films. <i>Materials Today: Proceedings</i> , 2021, 36, 416-420.	0.9	5
307	Frictional anisotropy of Ag nanocolumnar surfaces. <i>Tribology International</i> , 2021, 153, 106674.	3.0	0
308	Broadband antireflection film by glancing angle deposition. <i>Optical Materials</i> , 2021, 111, 110720.	1.7	10
309	Active sites and optimization of mixed copper-cobalt oxide anodes for anion exchange membrane water electrolysis. <i>Journal of Power Sources</i> , 2021, 485, 229217.	4.0	24

#	ARTICLE	IF	CITATIONS
310	Differential growth and evaluation of band structure of In-SnS for thin-film solar cell applications. <i>Materials Letters</i> , 2021, 284, 129026.	1.3	6
311	Plasma Synthesized Trilayered Rhodium-Platinum-Tin Oxide Nanostructures with Enhanced Tolerance to CO Poisoning and High Electroactivity for Ethanol Oxidation. <i>Energy Technology</i> , 2021, 9, 2000949.	1.8	3
312	Engineering inclined orientations of piezoelectric films for integrated acoustofluidics and lab-on-a-chip operated in liquid environments. <i>Lab on A Chip</i> , 2021, 21, 254-271.	3.1	20
313	Avoiding Anisotropies in On-Lattice Simulations of Ballistic Deposition. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000036.	0.7	2
314	Elastic behavior of anisotropic coatings sputter-deposited at oblique incidence. <i>International Journal of Mechanical Sciences</i> , 2021, 191, 106050.	3.6	3
315	Sculptured thin film vanadium dioxide thermochromic coatings grown by oblique angle deposition: investigation of transmittance response and modulation enhancement by experiment and theoretical modeling. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13304-13320.	2.7	8
316	Detection of benzo[a]pyrene with silver nanorod substrate in river water and soil based on surface-enhanced raman scattering. <i>Results in Chemistry</i> , 2021, 3, 100126.	0.9	16
317	Zinc oxide nanocolumns grown on self-assembled silica nanosphere monolayer templates. <i>Journal of Materials Research</i> , 2021, 36, 361-367.	1.2	0
318	Patterning and control of the nanostructure in plasma thin films with acoustic waves: mechanical vs. electrical polarization effects. <i>Materials Horizons</i> , 2021, 8, 515-524.	6.4	9
319	Heterogeneous and Homogeneous Nucleation in the Synthesis of Quasi-One-Dimensional Periodic Core-Shell Nanostructures. <i>Crystal Growth and Design</i> , 2021, 21, 1604-1616.	1.4	5
320	Lithium-based vertically aligned nanocomposites for three-dimensional solid-state batteries. <i>MRS Bulletin</i> , 2021, 46, 152-158.	1.7	6
321	Solid-State Dewetting of Gold on Stochastically Periodic SiO <sub>2</sub> Nanocolumns Prepared by Oblique Angle Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 11385-11395.	4.0	12
322	The effect of DNA bases permutation on surface-enhanced Raman scattering spectrum. <i>Nanophotonics</i> , 2021, 10, 1581-1593.	2.9	3
323	Strong light emission from a defective hexagonal boron nitride monolayer coupled to near-touching random plasmonic nanounits. <i>Optics Letters</i> , 2021, 46, 1664.	1.7	6
324	Effect of incident angle on the microstructure properties of Cu thin film deposited on Si (001) substrate. <i>Thin Solid Films</i> , 2021, 721, 138553.	0.8	10
325	Fabrication of TiO <sub>2</sub> -based broadband single-layer anti-reflection coating by collimated glancing angle deposition technique. <i>Nanotechnology</i> , 2021, 32, 245708.	1.3	5
326	Principal Physics of Oblique Sputtering of Calcium Phosphate Coatings Using RF-Magnetron Discharge Plasma. <i>Russian Physics Journal</i> , 2021, 63, 1891-1897.	0.2	0
327	Branching of Titanium Nanorods. <i>Nanomaterials</i> , 2021, 11, 1070.	1.9	2

#	ARTICLE	IF	CITATIONS
328	Effect of Radio-Frequency Power on the Composition of BiVO <sub>4</sub> Thin-Film Photoanodes Sputtered from a Single Target. <i>Energies</i> , 2021, 14, 2122.	1.6	4
329	On the structural and optical properties investigation of annealed Zn Nanorods in the Oxygen flux. <i>Chinese Physics B</i> , 0, , .	0.7	0
330	Form Birefringence in Resonant Transducers for the Selective Monitoring of VOCs under Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19148-19158.	4.0	1
331	Electrochromic response and porous structure of WO <sub>3</sub> cathode layers. <i>Electrochimica Acta</i> , 2021, 376, 138049.	2.6	32
332	Tuning the Optical Properties of WO <sub>3</sub> Films Exhibiting a Zigzag Columnar Microstructure. <i>Coatings</i> , 2021, 11, 438.	1.2	5
333	New Insights on the Conversion Reaction Mechanism in Metal Oxide Electrodes for Sodium-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 966.	1.9	6
334	Broadband Anti-Reflection Coatings Fabricated by Precise Time-Controlled and Oblique-Angle Deposition Methods. <i>Coatings</i> , 2021, 11, 492.	1.2	8
335	A review on the prominence of porosity in tungsten oxide thin films for electrochromism. <i>Ionics</i> , 2021, 27, 2307-2334.	1.2	34
336	Exploring Plasmonic Resonances Toward "Large-Scale" Flexible Optical Sensors with Deformation Stability. <i>Advanced Functional Materials</i> , 2021, 31, 2101959.	7.8	18
337	Dichroic Plasmonic Films Based on Anisotropic Au Nanoparticles for Enhanced Sensitivity and Figure of Merit Sensing. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11799-11812.	1.5	1
338	Review of infrared spectroscopy techniques for the determination of internal structure in thin SiO <sub>2</sub> films. <i>Vibrational Spectroscopy</i> , 2021, 114, 103256.	1.2	10
339	Effect of substrate tilt on sputter-deposited AuTa films. <i>Applied Surface Science</i> , 2021, 547, 149010.	3.1	14
340	Glancing Angle Deposition of Nanostructured ZnO Films for Ultrasonics. , 2021, , .		1
341	Solid State NMR Spectroscopy a Valuable Technique for Structural Insights of Advanced Thin Film Materials: A Review. <i>Nanomaterials</i> , 2021, 11, 1494.	1.9	9
342	Gas Sensors Based on Localized Surface Plasmon Resonances: Synthesis of Oxide Films with Embedded Metal Nanoparticles, Theory and Simulation, and Sensitivity Enhancement Strategies. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5388.	1.3	29
343	Optical-Fiber Microsphere-Based Temperature Sensors with ZnO ALD Coating"Comparative Study. <i>Sensors</i> , 2021, 21, 4982.	2.1	0
344	Studying of DC Electrical Properties for Gold Sputtered PM-355 Thin Films after Annealing and Ion Beam Irradiation. <i>Journal of Physics: Conference Series</i> , 2021, 1970, 012006.	0.3	0
345	Excessive number of high asperities for sputtered rough films. <i>Physical Review B</i> , 2021, 104, .	1.1	5

#	ARTICLE	IF	CITATIONS
346	Novel Tunnel Magnetoresistive Sensor Functionalities via Oblique-Incidence Deposition. ACS Applied Materials & Interfaces, 2021, 13, 32343-32351.	4.0	8
347	Effect of Ag decoration on the photodetection of catalyst-free synthesized vertically oriented SiO NW arrays. Sensors and Actuators A: Physical, 2021, 327, 112744.	2.0	8
348	On Improving Wear Resistance of Cr-Al-N Coatings Using Dynamic Glancing Angle DC Magnetron Sputtering. Nanomaterials, 2021, 11, 2187.	1.9	6
349	Fibroblast Response to Nanocolumnar TiO <sub>2</sub> Structures Grown by Oblique Angle Sputter Deposition. Advanced Materials Interfaces, 2021, 8, 2100646.	1.9	0
350	Morphology-controlled fabrication of nanostructured WO <sub>3</sub> thin films by magnetron sputtering with glancing angle deposition for enhanced efficiency photo-electrochemical water splitting. Ceramics International, 2021, 47, 34455-34462.	2.3	20
351	Formation, structure, and optical properties of copper chromite thin films for high-temperature solar absorbers. Materialia, 2021, 18, 101156.	1.3	4
352	High Power and Contamination Properties of All-Silica High Reflectivity Multilayers. IEEE Photonics Journal, 2021, 13, 1-7.	1.0	1
353	Resistivity anisotropy of tilted columnar W and W Cu thin films. Surface and Coatings Technology, 2021, 421, 127412.	2.2	6
354	Numerical study of structural and magnetic properties of thin films obliquely deposited on rippled substrates. Journal of Physics Condensed Matter, 2021, 33, 495802.	0.7	3
355	Oblique angle deposition of boron carbide films by magnetron sputtering. Journal of Applied Physics, 2021, 130, .	1.1	8
356	Mechanically Switchable Wetting Petal Effect in Self-Patterned Nanocolumnar Films on Poly(dimethylsiloxane). Nanomaterials, 2021, 11, 2566.	1.9	2
357	Effect of temperature on the growth of TiN thin films by oblique angle sputter-deposition: A three-dimensional atomistic computational study. Computational Materials Science, 2021, 197, 110662.	1.4	5
358	Geometric design classification of kirigami-inspired metastructures and metamaterials. Structures, 2021, 33, 3633-3643.	1.7	31
359	Photonic sensor systems for the identification of hydrocarbons and crude oils in static and flow conditions. Sensors and Actuators B: Chemical, 2021, 344, 130265.	4.0	1
360	Anisotropic properties of oblique angle deposited permalloy thin films. Thin Solid Films, 2021, 735, 138899.	0.8	10
361	Multifunctional hard coatings based on CrNx for temperature sensing applications. Sensors and Actuators A: Physical, 2021, 329, 112794.	2.0	4
362	Nanoscale coating on tip geometry by cryogenic focused ion beam deposition. Applied Surface Science, 2021, 564, 150355.	3.1	6
363	Influence of point defects on phase transformation and optical properties of TiO <sub>2</sub> thin films via multilayering deposition technique. Materials Chemistry and Physics, 2021, 272, 124859.	2.0	4

#	ARTICLE	IF	CITATIONS
364	Characterization broadband omnidirectional antireflection ITO nanorod films coating. Optical Materials, 2021, 121, 111545.	1.7	11
365	Extraction of microstructural parameters from sculptured thin films nanoindentation. Surface and Coatings Technology, 2021, 425, 127696.	2.2	5
366	Nanostructure optimization of Zr-W-Ti metallic glass thin films via multitarget co-sputtering with oblique angle deposition approach. Journal of Alloys and Compounds, 2021, 886, 161265.	2.8	8
367	Fabrication of porous 1D WO <sub>3</sub> NRs and WO <sub>3</sub> /BiVO <sub>4</sub> hetero junction photoanode for efficient photoelectrochemical water splitting. Materials Chemistry and Physics, 2021, 274, 125095.	2.0	24
368	Magnetron sputtered magnesium-based thin film metallic glasses for bioimplants. Biointerphases, 2021, 16, 011005.	0.6	3
369	Effect of Sputtered Pressure on Au Nanoparticles Formation Decorated ZnO Nanowire Arrays. Materials Today: Proceedings, 2021, 43, 2624-2628.	0.9	1
370	Sputtered Au-Ta films with tunable electrical resistivity. Journal Physics D: Applied Physics, 2021, 54, 075303.	1.3	14
371	Generalized theory of smallest diameter of metallic nanorods. Physical Review Materials, 2017, 1, .	0.9	3
372	Vapor and liquid optical monitoring with sculptured Bragg microcavities. Journal of Nanophotonics, 2017, 11, 1.	0.4	5
373	Microstructural Evolution and ORR Activity of Nanocolumnar Platinum Thin Films with Different Mass Loadings Grown by High Pressure Sputtering. Journal of the Electrochemical Society, 2020, 167, 134514.	1.3	3
374	Machine learning for composition analysis of ssDNA using chemical enhancement in SERS. Biomedical Optics Express, 2020, 11, 5092.	1.5	16
375	Interference suppression of light backscattering through oblique deposition of high-reflectivity multilayers: a theoretical analysis. Optics Express, 2020, 28, 30626.	1.7	4
376	Effective optical constants of anisotropic silver nanoparticle films with plasmonic properties. Optics Letters, 2016, 41, 5495.	1.7	19
377	Design, Fabrication and Characterization of n-Si Columnar Structures for Solar Cell Applications. Nanoscience and Nanotechnology - Asia, 2020, 10, 74-79.	0.3	1
378	Polarized photoluminescence of Alq <sub>3</sub> thin films obtained by the method of oblique-angle deposition. Ukrainian Journal of Physical Optics, 2021, 22, 209-215.	9.7	1
379	Gold-tantalum alloy films deposited by high-density-plasma magnetron sputtering. Journal of Applied Physics, 2021, 130, .	1.1	10
380	High surface area nitrogen-functionalized Ni nanozymes for efficient peroxidase-like catalytic activity. PLoS ONE, 2021, 16, e0257777.	1.1	8
381	Recent Advances in Alkaline Exchange Membrane Water Electrolysis and Electrode Manufacturing. Molecules, 2021, 26, 6326.	1.7	50

#	ARTICLE	IF	CITATIONS
382	Metal-Oxide Nanostructures Designed by Glancing Angle Deposition Technique and Its Applications on Sensors and Optoelectronic Devices: A Review. Communications in Computer and Information Science, 2017, , 388-397.	0.4	0
383	Synthetic Strategies for Anisotropic and Shape-Selective Nanomaterials. Nanostructure Science and Technology, 2017, , 29-77.	0.1	1
384	Vapor and liquid optical monitoring with sculptured Bragg microcavities. , 2017, , .		0
385	High Power Properties of Low Density Nano-columnar SiO2 Films for All-Silica Mirrors. , 2019, , .		0
386	Influence of the dielectric substrate on the effective optical constants of silver plasmonic films. Applied Optics, 2019, 58, 6038.	0.9	1
387	Disordered and densely packed ITO nanorods as an excellent lithography-free optical solar reflector metasurface for the radiative cooling of spacecraft. , 2019, , .		0
388	Temperature threshold for localized surface plasmon resonance in glancing angle deposited ultra-thin silver films. Journal of Physics Condensed Matter, 2020, 32, 395701.	0.7	3
389	Effect of Peak Current Density on Inner-wall Deposition of Ti Films by High-power Impulse Magnetron Sputtering. Vacuum and Surface Science, 2020, 63, 404-412.	0.0	0
390	Selective Deposition of Copper on Self-Assembled Block Copolymer Surfaces <i>via</i> Physical Vapor Deposition. ACS Applied Materials & Interfaces, 2021, 13, 52931-52937.	4.0	8
391	Evolutionary Design, Deposition and Characterization Techniques for Interference Optical Thin-Film Multilayer Coatings and Devices. Materials Horizons, 2020, , 281-343.	0.3	0
392	Self-depositing passivation layer investigations on stability improvement of the Ag NRs SERS substrate. Vacuum, 2022, 196, 110734.	1.6	4
393	Controlled grain-size thermochromic VO2 coatings by the fast oxidation of sputtered vanadium or vanadium oxide films deposited at glancing angles. Surfaces and Interfaces, 2021, 27, 101581.	1.5	6
394	Oxygen Reduction Reaction Activity of Nanocolumnar Platinum Thin Films by High Pressure Sputtering. Journal of the Electrochemical Society, 2020, 167, 134508.	1.3	2
395	Wetting and spreading of liquid lithium onto nanocolumnar tungsten coatings tailored through the topography of stainless steel substrates. Nuclear Fusion, 2020, 60, 126033.	1.6	6
396	Structure and properties of the low-energy deposited TiO2 thin films: results of the molecular dynamics simulation. Journal of Physics: Conference Series, 2021, 2015, 012051.	0.3	0
397	Growth and characterization of NiWO nanorod films prepared by reactive magnetron co-sputtering with oblique angle deposition. Vacuum, 2022, 196, 110777.	1.6	2
398	On ion transport during the electrochemical reaction on plane and GLAD deposited WO3 thin films. Materials Today: Proceedings, 2021, , .	0.9	14
399	Nanocolumnar Pt:Ni Alloy Thin Films by High Pressure Sputtering for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 0, , .	1.3	0

#	ARTICLE	IF	CITATIONS
400	Ionomer-Free Nickel-Iron bimetallic electrodes for efficient anion exchange membrane water electrolysis. <i>Chemical Engineering Journal</i> , 2022, 433, 133774.	6.6	22
401	Tuning optical properties of CdS films using oblique angle deposition technique. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	1.5	0
402	Coatings for Core-Shell Composite Micro-Lattice Structures: Varying Sputtering Parameters. <i>Advanced Engineering Materials</i> , 2022, 24, 2101264.	1.6	4
403	Fabrication of cerium oxide films with thickness and hydrophobicity gradients. <i>Surface and Coatings Technology</i> , 2022, 430, 127985.	2.2	3
404	Nanostructured and columnar vanadium and vanadium oxides films synthesized by means of magnetron-based gas aggregation source. <i>Surface and Coatings Technology</i> , 2022, 431, 128015.	2.2	6
405	Optically sensitive isolated silver nano-dots development by broad ion implantation on nitrogen ion-induced pre-patterned silicon nano-templates. <i>Applied Surface Science</i> , 2022, 578, 152079.	3.1	5
406	A purview into highly sensitive magnetic SERS detection of hemozoin biomarker for rapid malaria diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2022, 355, 131303.	4.0	9
407	Morphology induced large magnetic anisotropy in obliquely grown nanostructured thin film on nanopatterned substrate. <i>Applied Surface Science</i> , 2022, 581, 152377.	3.1	8
408	Mesomorphic Ceramic Films Synthesized via Lyotropic Self-Assembly of Metal Oxide Nanorods Complete with Sintering. <i>ACS Applied Nano Materials</i> , 2020, 3, 10605-10611.	2.4	5
409	Highly Anisotropic Organometal Halide Perovskite Nanowalls Grown by Glancing Angle Deposition. <i>Advanced Materials</i> , 2022, 34, e2107739.	11.1	5
410	Origin and properties of an unexpected exchange bias of Ta/Ni <sub>80</sub> Fe <sub>20</sub> /Ir <sub>20</sub> Mn <sub>80</sub> /Ta heterostructure in ultrathin limit: Impact of the oblique deposition and Ta/Ni <sub>80</sub> Fe <sub>20</sub> alloying. <i>Thin Solid Films</i> , 2022, 746, 139115.	0.8	3
411	Architecture engineering of nanostructured catalyst via layer-by-layer adornment of multiple nanocatalysts on silica nanorod arrays for hydrogenation of nitroarenes. <i>Scientific Reports</i> , 2022, 12, 2.	1.6	10
412	Lithography-free metamaterial absorbers: opinion. <i>Optical Materials Express</i> , 2022, 12, 524.	1.6	6
413	c-Axis-tilted ScAlN films grown on silicon substrates for surface acoustic wave devices. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SG1054.	0.8	6
414	Influence of post-deposition annealing temperature on morphological, mechanical and electrochemical properties of CrN/CrAlN multilayer coating deposited by cathodic arc evaporation-physical vapor deposition process. <i>Surface and Coatings Technology</i> , 2022, 432, 128090.	2.2	32
415	Application of advanced (S)TEM methods for the study of nanostructured porous functional surfaces: A few working examples. <i>Materials Characterization</i> , 2022, 185, 111741.	1.9	5
416	Phase evolution in annealed Ni-doped WO <sub>3</sub> nanorod films prepared via a glancing angle deposition technique for enhanced photoelectrochemical performance. <i>Applied Surface Science</i> , 2022, 584, 152581.	3.1	2
417	Scalable Gas Diffusion Electrode Fabrication for Electrochemical CO <sub>2</sub> Reduction Using Physical Vapor Deposition Methods. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7731-7740.	4.0	21



#	ARTICLE	IF	CITATIONS
418	Deposition of titanium films on complex bowl-shaped workpieces using DCMS and HiPIMS. <i>Surface and Coatings Technology</i> , 2022, 442, 128192.	2.2	7
419	Electron Beam Evaporated vs. Magnetron Sputtered Nanocolumnar Porous Stainless Steel: Corrosion Resistance, Wetting Behavior and Anti-bacterial Activity. <i>Materials Today Communications</i> , 2022, 31, 103266.	0.9	7
420	PVD techniques proffering avenues for fabrication of porous tungsten oxide (WO <sub>3</sub> ) thin films: A review. <i>Materials Science in Semiconductor Processing</i> , 2022, 143, 106534.	1.9	31
421	Flexible TiCu Thin Films with Dual Antimicrobial and Piezoresistive Characteristics. <i>ACS Applied Bio Materials</i> , 2022, 5, 1267-1272.	2.3	3
422	Problems in measuring the Casimir forces at short separations. <i>International Journal of Modern Physics A</i> , 2022, 37, .	0.5	2
423	Rayleigh and shear-horizontal surface acoustic waves simultaneously generated in inclined ZnO films for acoustofluidic lab-on-a-chip. <i>Surface and Coatings Technology</i> , 2022, 442, 128336.	2.2	4
424	Textured concave anti-reflecting coating and convex back reflector to enhance the absorbance of amorphous Si solar cells. <i>Physica Scripta</i> , 2022, 97, 055503.	1.2	15
425	Plasmonic Nanostructure Engineering with Shadow Growth. <i>Advanced Materials</i> , 2023, 35, e2107917.	11.1	12
426	Spontaneous Emergence of Optically Polarizing Nanoscale Structures by Co-Deposition of Aluminum with Refractory Metals: Implications for High-Temperature Polarizers. <i>ACS Applied Nano Materials</i> , 2022, 5, 4316-4324.	2.4	0
427	Thin film nanostructuring at oblique angles by substrate patterning. <i>Surface and Coatings Technology</i> , 2022, 436, 128293.	2.2	5
428	Large-Area Nanopillar Arrays by Glancing Angle Deposition with Tailored Magnetic Properties. <i>Nanomaterials</i> , 2022, 12, 1186.	1.9	4
429	In vitro corrosion response of CoCrMo and Ti-6Al-4V orthopedic implants with Zr columnar thin films. <i>Surface and Coatings Technology</i> , 2022, 436, 128310.	2.2	4
430	Titania Enhanced Photocatalysis and Dye Giant Absorption in Nanoporous 1D Bragg Microcavities. <i>ACS Applied Nano Materials</i> , 2022, 5, 5487-5497.	2.4	5
431	Oblique angle co-deposition of nanocolumnar tungsten thin films with two W sources: Effect of pressure and target current. <i>Materials Chemistry and Physics</i> , 2022, 281, 125864.	2.0	1
432	Oblique angle deposited FeCo multilayered nanocolumnar structure: Magnetic anisotropy and its thermal stability in polycrystalline thin films. <i>Applied Surface Science</i> , 2022, 590, 153056.	3.1	6
433	Nanostructuring at Oblique Angle Deposition of Aluminum. <i>Technical Physics Letters</i> , 2021, 47, 617-619.	0.2	1
434	Control of Surface Wrinkling through Compliant Nanostructured Interfaces. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	1
435	Microstructural impacts on ionic conductivity of oxide solid electrolytes from a combined atomistic-mesoscale approach. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	25

#	ARTICLE	IF	CITATIONS
436	Nanostructuring at oblique incidence deposition of cobalt. Journal of Physics: Conference Series, 2021, 2086, 012001.	0.3	0
437	Impact of Cr nanocrystalline discrete crystal nuclei on demolding strength and surface roughness of precision electroforming Ni layer on Cu substrate. Journal of Applied Electrochemistry, 2022, 52, 1091-1100.	1.5	2
440	Recent Advances in SnSe Nanostructures beyond Thermoelectricity. Advanced Functional Materials, 2022, 32, .	7.8	28
441	Interface and defects engineering for multilayer laser coatings. Progress in Surface Science, 2022, 97, 100663.	3.8	1
442	Planar Microsupercapacitors Based on Oblique Angle Deposited Highly Porous TiN Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 26162-26170.	4.0	9
443	Near Ambient Pressure Xps Analysis of Inert Gas Core Levels for Investigation of Gas-Solid Interaction in Dielectric Porous Films: Effect of Surface Charging and Physisorption. SSRN Electronic Journal, 0, , .	0.4	0
444	Nanostructured nickel based electrocatalysts for hybrid ethanol-water anion exchange membrane electrolysis. Journal of Environmental Chemical Engineering, 2022, 10, 107994.	3.3	3
445	Nanostructuring at Oblique Angle Deposition of Cobalt. Bulletin of the Russian Academy of Sciences: Physics, 2022, 86, 542-545.	0.1	1
446	Metallic to semiconducting transition and hydrophobicity properties of indium films. Vacuum, 2022, 203, 111281.	1.6	4
447	Periodic Nanoporous Inorganic Patterns Directly Made by Self-Ordering of Cracks. Advanced Materials, 2022, 34, .	11.1	7
448	Comparative study regarding the sputtering yield of nanocolumnar tungsten surfaces under $\alpha$ irradiation. Physical Review Materials, 2022, 6, .	0.9	4
449	Field-Free Magnetization Switching in a Ferromagnetic Single Layer through Multiple Inversion Asymmetry Engineering. ACS Nano, 2022, 16, 12462-12470.	7.3	18
450	Theoretical and Experimental Research on Step Coverage Optimization for Integrated Microstructures of Thin Films. Lecture Notes in Networks and Systems, 2023, , 185-202.	0.5	2
451	A review on 1D materials for all-solid-state lithium-ion batteries and all-solid-state lithium-sulfur batteries. Chemical Engineering Journal, 2023, 451, 138532.	6.6	19
452	Thermal analysis of the ceramic material and evaluation of the bonding behavior of silicon-ceramic composite substrates. Journal of Micromechanics and Microengineering, 2022, 32, 105004.	1.5	2
453	Checkerboard-like structure in columnar W-Mo thin films. Functional Materials Letters, 0, , .	0.7	0
454	Optimization of anion exchange membrane water electrolyzers using ionomer-free electrodes. Renewable Energy, 2022, 197, 1183-1191.	4.3	4
455	Challenges in the interpretation of gas core levels for the determination of gas-solid interactions within dielectric porous films by ambient pressure XPS. Applied Surface Science, 2022, 604, 154525.	3.1	5

#	ARTICLE	IF	CITATIONS
456	Nanoscale Control of Structure and Composition for Nanocrystalline Fe Thin Films Grown by Oblique Angle RF Sputtering. <i>Materials</i> , 2022, 15, 6134.	1.3	2
457	Ballistic and thermalized regimes to tune structure and conducting properties of W-Mo thin films. <i>Vacuum</i> , 2022, 204, 111347.	1.6	2
458	In-flow photocatalytic oxidation of NO on glasses coated with nanocolumnar porous TiO <sub>2</sub> thin films prepared by reactive sputtering. <i>Applied Surface Science</i> , 2022, 606, 154968.	3.1	2
459	Texture in ITO films deposited at oblique incidence by ion beam sputtering. <i>Applied Surface Science</i> , 2022, 605, 154677.	3.1	2
460	Spatiotemporal dynamic characterization of the laser-induced plasma of a mixed material (WCCu) under variable ablation angles in a vacuum. <i>Journal of Analytical Atomic Spectrometry</i> , 0, , .	1.6	4
461	Ion Beam Sputtering Induced Glancing Angle Deposition. <i>Springer Series in Materials Science</i> , 2022, , 613-662.	0.4	0
462	Self-assembled pagoda-like nanostructure-induced vertically stacked split-ring resonators for polarization-sensitive dichroic responses. <i>Nano Convergence</i> , 2022, 9, .	6.3	8
463	Temporal evolution of the ion flux to the target in rotational RF multimagnetron plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 053006.	0.9	1
464	Silver Nanorods Array on the Zinc Oxide Thin Film Deposited by Hydrothermal Methods for Surface-Enhanced Raman Scattering. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 9275.	1.3	1
465	Design and Characterization of ITO-Covered Resonant Nanopillars for Dual Optical and Electrochemical Sensing. <i>Chemosensors</i> , 2022, 10, 393.	1.8	5
466	Recent Advances in Silver Nanostructured Substrates for Plasmonic Sensors. <i>Biosensors</i> , 2022, 12, 713.	2.3	13
467	Growth-Dependent Interlayer Chiral Exchange and Field-Free Switching. <i>Physical Review Applied</i> , 2022, 18, .	1.5	14
468	Growth of Vertical TiO <sub>2</sub> -Nanowire Photoanode for Application of Dye-Sensitized Solar Cell. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 119-129.	0.3	1
469	Structural and electrical properties of nanocolumnar W-Mo thin films with a Janus-like structure. <i>Surface and Coatings Technology</i> , 2022, 448, 128928.	2.2	1
470	Tailoring of optical and wetting properties of electron beam deposited Ag nanostructure films by oblique angle deposition. <i>Journal of Optics (India)</i> , 0, , .	0.8	1
471	Formation of HfO <sub>x</sub> Ny nanorod GLAD films growth by rapid thermal oxidation. <i>Vacuum</i> , 2023, 207, 111563.	1.6	1
472	A review of various single layer, bilayer, and multilayer TCO materials and their applications. <i>Materials Chemistry and Physics</i> , 2022, 292, 126789.	2.0	12
473	Growth mechanism of nano-plates structured SnS films on different substrates in glancing angle deposition method. <i>Scientific Reports</i> , 2022, 12, .	1.6	3

#	ARTICLE	IF	CITATIONS
474	Theoretical Analysis of Optical Properties for Amorphous Silicon Solar Cells with Adding Anti-Reflective Coating Photonic Crystals. <i>Photonics</i> , 2022, 9, 813.	0.9	7
475	Sculptured thin films: Overcoming the limitations of surface-enhanced Raman scattering substrates. <i>Applied Surface Science Advances</i> , 2022, 12, 100322.	2.9	9
476	Enhancement of mechanical, thermal and optical properties of TiO <sub>2</sub> thin films using glancing angle deposition technique. <i>Optical Materials</i> , 2022, 134, 113054.	1.7	3
477	Spectroscopic study on alternative plasmonic TiN-NRs film prepared by R-HIPIMS with GLAD technique. <i>Radiation Physics and Chemistry</i> , 2023, 202, 110589.	1.4	3
478	Optimization of GLAD Angle for E-Beam-Fabricated Tungsten Oxide (WO <sub>3</sub> ) Thin Films Towards Novel Electrochromic Behavior. <i>Journal of Electronic Materials</i> , 2023, 52, 653-668.	1.0	5
479	Ultrasensitive determination of lipid soluble antioxidants in food products using silver nano-tripod SERS substrates. <i>Applied Surface Science</i> , 2023, 611, 155577.	3.1	3
480	Ultimate figures of merit broadband self-powered obliquely deposited antimony thin film laser detectors. <i>Scientific Reports</i> , 2022, 12, .	1.6	0
481	Design of sculptured SnS/g-C <sub>3</sub> N <sub>4</sub> photocatalytic nanostructure for highly efficient and selective CO <sub>2</sub> conversion to methane. <i>Applied Catalysis B: Environmental</i> , 2023, 324, 122231.	10.8	19
482	Gold Nanocolumnar Templates for Effective Chemical Sensing by Surface-Enhanced Raman Scattering. <i>Nanomaterials</i> , 2022, 12, 4157.	1.9	3
483	Towards the limitation of optical absorption dissipations of amorphous silicon solar cells based on annular concave anti-reflecting coating. <i>Waves in Random and Complex Media</i> , 0, , 1-19.	1.6	0
484	Methods to Synthesize Nanostructured Materials for Electrocatalytic Activities. <i>ACS Symposium Series</i> , 0, , 31-51.	0.5	0
485	GLAD Based Advanced Nanostructures for Diversified Biosensing Applications: Recent Progress. <i>Biosensors</i> , 2022, 12, 1115.	2.3	5
486	Tek-eksenli Manyetik Anizotropiye Sahip Permalloy (Ni <sub>79</sub> Fe <sub>21</sub> ) Ąnce Filmlerin Manyetik ve Yapısal Karakterizasyonu. <i>Journal of the Institute of Science and Technology</i> , 0, , 2153-2165.	0.3	0
487	Photocatalytic degradation of naproxen using single-doped TiO <sub>2</sub> /FTO and co-doped TiO <sub>2</sub> -VO <sub>2</sub> /FTO thin films synthesized by sonochemistry. <i>International Journal of Chemical Reactor Engineering</i> , 2023, 21, 493-510.	0.6	1
488	Nanostructured Semi-Transparent TiO <sub>2</sub> Nanoparticle Coatings Produced by Magnetron-Based Gas Aggregation Source. <i>Coatings</i> , 2023, 13, 51.	1.2	2
489	Influence of Oblique Angle Deposition on Porous Polymer Film Formation. <i>Langmuir</i> , 2023, 39, 1507-1514.	1.6	2
490	Experimental Demonstration of Light-Trapping Transparent Electrode Geometries. <i>ACS Photonics</i> , 2023, 10, 595-600.	3.2	3
491	A simple two-step approach to the fabrication of VO <sub>2</sub> -based coatings with unique thermochromic features for energy-efficient smart glazing. <i>Energy and Buildings</i> , 2023, 285, 112892.	3.1	5

#	ARTICLE	IF	CITATIONS
492	Towards the optimization of a simple route for the fabrication of energy-efficient VO <sub>2</sub> -based smart coatings. <i>Solar Energy Materials and Solar Cells</i> , 2023, 254, 112253.	3.0	2
493	Fabrication of Ag nanoparticle assisted TiO <sub>2</sub> Nanowire Photoanode at Low Temperature for Flexible DSSC Applications. , 2022, , .		0
494	High average power optical properties of silica aerogel thin film. <i>Thin Solid Films</i> , 2023, 768, 139722.	0.8	0
495	Micromorphology and uniaxial magnetic anisotropy of oblique-sputtered Ni <sub>80</sub> Fe <sub>20</sub> films on periodically rippled Al <sub>2</sub> O <sub>3</sub> substrates. <i>Surfaces and Interfaces</i> , 2023, 37, 102694.	1.5	2
496	Highly angle-sensitive and efficient optical metasurfaces with broken mirror symmetry. <i>Nanophotonics</i> , 2023, 12, 2347-2358.	2.9	2
497	Radio-frequency magnetron sputter deposition of ultrathick boron carbide films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2023, 41, .	0.9	5
498	Temperature and substrate effect on the electrical and structural properties of NiO columnar nanostructure. <i>Applied Physics A: Materials Science and Processing</i> , 2023, 129, .	1.1	2
499	Controlling In-plane Magnetic Anisotropy of Co Films on MgO Substrates using Glancing Angle Deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2023, 220, .	0.8	2
500	Strategies to break the trade-off between infrared transparency and conductivity. <i>Progress in Materials Science</i> , 2023, 136, 101112.	16.0	8
501	Evaluation of Surface-Enhanced Raman Scattering Substrate Consisting of Gold Nanoparticles Grown on Nanoarrays of Boehmite Fabricated using Magnetron Sputtering Process. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2022, 35, 249-253.	0.1	0
502	Optimization of shadow evaporation and oxidation for reproducible quantum Josephson junction circuits. <i>Scientific Reports</i> , 2023, 13, .	1.6	5
503	Low temperature nucleation of thermochromic VO <sub>2</sub> crystal domains in nanocolumnar porous thin films. <i>Nanotechnology</i> , 2023, 34, 255702.	1.3	1
504	Comparative study of liquid crystal variable retarder with rubbed polyimide and SiO <sub>2</sub> thin films by glancing angle deposition. <i>Modern Physics Letters B</i> , 0, , .	1.0	0
505	Optical Properties of Slot-Die Coated Hybrid Colloid/Cellulose-Nanofibril Thin Films. <i>Advanced Optical Materials</i> , 0, , .	3.6	2
515	Growth and properties of Functionally graded ceramic coatings deposited by grid-assisted magnetron sputtering. , 2023, , 401-432.		0
520	Superhydrophobic Coating: Stability and Potential Applications. <i>Materials Horizons</i> , 2023, , 303-315.	0.3	0
523	Coating materials for artificial knee joint components. , 2024, , 579-591.		0
538	Materials with adjustable refractive index for precision optical filter fabrication. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
547	Efficiency and Accuracy of High-Performance Calculations of the Electrostatic Energy of Thin Films Atomistic Clusters. Lecture Notes in Computer Science, 2023, , 74-85.	1.0	0
548	Antireflective coatings and optical filters. , 2024, , 343-371.		0