

# Zhong-Tao Jiang

## List of Publications by Year in descending order

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134  
papers

2,792  
citations

185998

28  
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134  
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134  
docs citations

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times ranked

3014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar absorptance of copper-cobalt oxide thin film coatings with nano-size, grain-like morphology: Optimization and synchrotron radiation XPS studies. <i>Applied Surface Science</i> , 2013, 275, 127-135.	3.1	168
2	Synthesis and characterisation of nanohydroxyapatite using an ultrasound assisted method. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 469-474.	3.8	141
3	Green synthesis of mesoporous anatase TiO <sub>2</sub> nanoparticles and their photocatalytic activities. <i>RSC Advances</i> , 2017, 7, 48083-48094.	1.7	118
4	Designing superhard, self-toughening CrAlN coatings through grain boundary engineering. <i>Acta Materialia</i> , 2012, 60, 5735-5744.	3.8	108
5	Measurement and Calculation of Optical Band Gap of Chromium Aluminum Oxide Films. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4820-4825.	0.8	70
6	Decomposition of selected chlorinated volatile organic compounds by ceria (CeO <sub>2</sub> ). <i>Catalysis Science and Technology</i> , 2017, 7, 3902-3919.	2.1	64
7	Optical and mechanical characterization of novel cobalt-based metal oxide thin films synthesized using sol-gel dip-coating method. <i>Surface and Coatings Technology</i> , 2012, 207, 367-374.	2.2	58
8	Role of Additives in Electrochemical Deposition of Ternary Metal Oxide Microspheres for Supercapacitor Applications. <i>ACS Omega</i> , 2020, 5, 3405-3417.	1.6	54
9	Thermal Recycling of Brominated Flame Retardants with Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , 2016, 120, 6039-6047.	1.1	50
10	Corrosion behaviour of nanocomposite TiSiN coatings on steel substrates. <i>Corrosion Science</i> , 2011, 53, 3678-3687.	3.0	46
11	Hydrothermal synthesis of cubic $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> microparticles using glycine: Surface characterization, reaction mechanism and electrochemical activity. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9821-9825.	2.8	46
12	Enhancing toughness of CrN coatings by Ni addition for safety-critical applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 596, 264-274.	2.6	46
13	An In Situ Synchrotron Radiation Grazing Incidence X-Ray Diffraction Study of Carbon Dioxide Corrosion. <i>Journal of the Electrochemical Society</i> , 2005, 152, B389.	1.3	45
14	Biocompatibility study of multi-layered hydroxyapatite coatings synthesized on Ti-6Al-4V alloys by RF magnetron sputtering for prosthetic-orthopaedic implant applications. <i>Applied Surface Science</i> , 2019, 463, 292-299.	3.1	42
15	An in situ electrochemical impedance spectroscopy/synchrotron radiation grazing incidence X-ray diffraction study of the influence of acetate on the carbon dioxide corrosion of mild steel. <i>Electrochimica Acta</i> , 2007, 52, 3746-3750.	2.6	40
16	Tailoring the physicochemical and mechanical properties of optical copper-cobalt oxide thin films through annealing treatment. <i>Surface and Coatings Technology</i> , 2014, 239, 212-221.	2.2	40
17	Work function investigations of Al-doped ZnO for band-alignment in electronic and optoelectronic applications. <i>Applied Surface Science</i> , 2019, 484, 990-998.	3.1	37
18	Influence of different extrusion processes on mechanical properties of magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 220-224.	5.5	36

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19	Effects of annealing temperatures on the morphological, mechanical, surface chemical bonding, and solar selectivity properties of sputtered TiAlSiN thin films. <i>Journal of Alloys and Compounds</i> , 2016, 671, 254-266.	2.8	36
20	How does biochar aging affect NH <sub>3</sub> volatilization and GHGs emissions from agricultural soils?. <i>Environmental Pollution</i> , 2022, 294, 118598.	3.7	36
21	Surface Electronic Structure and Mechanical Characteristics of Copper-Cobalt Oxide Thin Film Coatings: Soft X-ray Synchrotron Radiation Spectroscopic Analyses and Modeling. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16457-16467.	1.5	35
22	Annealing effects on microstructural, optical, and mechanical properties of sputtered CrN thin film coatings: Experimental studies and finite element modeling. <i>Journal of Alloys and Compounds</i> , 2018, 750, 451-464.	2.8	35
23	Chemical bonding states and solar selective characteristics of unbalanced magnetron sputtered Ti <sub>x</sub> M <sub>1-x</sub> N <sub>y</sub> films. <i>RSC Advances</i> , 2016, 6, 36373-36383.	1.7	34
24	Understanding the shrinkage of optical absorption edges of nanostructured Cd-Zn sulphide films for photothermal applications. <i>Applied Surface Science</i> , 2017, 392, 854-862.	3.1	33
25	Novel Approach for Fabricating Transparent and Conducting SWCNTs/ITO Thin Films for Optoelectronic Applications. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3014-3027.	1.5	33
26	Title is missing!. <i>Journal of Materials Science</i> , 1997, 32, 1213-1219.	1.7	32
27	Surface structural features and optical analysis of nanostructured Cu-oxide thin film coatings coated via the sol-gel dip coating method. <i>Ceramics International</i> , 2019, 45, 12888-12894.	2.3	31
28	Hydrodesulfurization of Thiophene over $\gamma$ -Mo <sub>2</sub> N catalyst. <i>Molecular Catalysis</i> , 2018, 459, 21-30.	1.0	30
29	Thermal stability, mechanical properties, and tribological performance of TiAlXN coatings: understanding the effects of alloying additions. <i>Journal of Materials Research and Technology</i> , 2022, 17, 961-1012.	2.6	30
30	Selective and sensitive visible-light-prompt photoelectrochemical sensor of Cu <sup>2+</sup> based on CdS nanorods modified with Au and graphene quantum dots. <i>Journal of Hazardous Materials</i> , 2020, 391, 122248.	6.5	29
31	Effect of dilute gelatine on the ultrasonic thermally assisted synthesis of nano hydroxyapatite. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 697-703.	3.8	27
32	Investigation of the post-annealing electromagnetic response of Cu-Co oxide coatings via optical measurement and computational modelling. <i>RSC Advances</i> , 2017, 7, 16826-16835.	1.7	27
33	Optical properties and thermal durability of copper cobalt oxide thin film coatings with integrated silica antireflection layer. <i>Ceramics International</i> , 2014, 40, 16569-16575.	2.3	26
34	Recycling of zincite (ZnO) via uptake of hydrogen halides. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1221-1230.	1.3	26
35	Mechanisms governing selective hydrogenation of acetylene over $\gamma$ -Mo <sub>2</sub> N surfaces. <i>Catalysis Science and Technology</i> , 2017, 7, 943-960.	2.1	25
36	Structural Thermal Stability of Graphene Oxide-Doped Copper-Cobalt Oxide Coatings as a Solar Selective Surface. <i>Journal of Materials Science and Technology</i> , 2016, 32, 1179-1191.	5.6	24

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37	Reactions of products from thermal degradation of PVC with nanoclusters of $\hat{\text{I}}\pm\text{-Fe}_2\text{O}_3$ (hematite). Chemical Engineering Journal, 2017, 323, 396-405.	6.6	24
38	The nature and role of passive films in controlling the corrosion resistance of MoSi <sub>2</sub> -based nanocomposite coatings. Journal of Materials Chemistry A, 2013, 1, 10281.	5.2	23
39	Study of structural properties and defects of Ni-doped SnO <sub>2</sub> nanorods as ethanol gas sensors. Nanotechnology, 2017, 28, 265702.	1.3	23
40	Understanding the impacts of Al <sup>+3</sup> -substitutions on the enhancement of magnetic, dielectric and electrical behaviors of ceramic processed nickel-zinc mixed ferrites: FTIR assisted studies. Materials Research Bulletin, 2018, 97, 444-451.	2.7	22
41	Improved mechanical properties of sol-gel derived ITO thin films via Ag doping. Materials Today Communications, 2018, 14, 210-224.	0.9	21
42	Line structure in photoelectron and Auger electron spectra of CuOx/Cu and Cu by Auger photoelectron coincidence spectroscopy (APECS). Surface and Interface Analysis, 2001, 31, 287-290.	0.8	20
43	Factors controlling conductivity of PEDOT deposited using oxidative chemical vapor deposition. Applied Surface Science, 2020, 501, 144105.	3.1	20
44	Repurposing N-Doped Grape Marc for the Fabrication of Supercapacitors with Theoretical and Machine Learning Models. Nanomaterials, 2022, 12, 1847.	1.9	20
45	Sol-gel derived ITO-based bi-layer and tri-layer thin film coatings for organic solar cells applications. Applied Surface Science, 2020, 530, 147164.	3.1	19
46	Review of Solâ€“Gel Derived Mixed Metal Oxide Thin Film Coatings with the Addition of Carbon Materials for Selective Surface Applications. Journal of Advanced Physics, 2014, 3, 179-193.	0.4	19
47	In situ electrochemical impedance spectroscopy/synchrotron radiation grazing incidence X-ray diffractionâ€“A powerful new technique for the characterization of electrochemical surfaces and interfaces. Electrochimica Acta, 2006, 51, 5920-5925.	2.6	18
48	Structural, morphological, and optical characterizations of Mo, CrN and Mo:CrN sputtered coatings for potential solar selective applications. Applied Surface Science, 2018, 440, 1001-1010.	3.1	18
49	Solar selective performance of metal nitride/oxynitride based magnetron sputtered thin film coatings: a comprehensive review. Journal of Optics (United Kingdom), 2018, 20, 033001.	1.0	18
50	A Short Review on the Phase Structures, Oxidation Kinetics, and Mechanical Properties of Complex Ti-Al Alloys. Materials, 2021, 14, 1677.	1.3	18
51	A critical role for Al in regulating the corrosion resistance of nanocrystalline Mo(Si <sub>x</sub> Al <sub>x</sub> ) <sub>2</sub> films. Journal of Materials Chemistry, 2012, 22, 2596-2606.	6.7	17
52	Conversion of NO into N <sub>2</sub> over $\hat{\text{I}}^3\text{-Mo}_2\text{N}$ . Journal of Physical Chemistry C, 2016, 120, 22270-22280.	1.5	17
53	Predicting high temperature mechanical properties of CrN and CrAlN coatings from in-situ synchrotron radiation X-ray diffraction. Thin Solid Films, 2016, 599, 98-103.	0.8	17
54	Colorimetric and visual dopamine assay based on the use of gold nanorods. Mikrochimica Acta, 2017, 184, 4125-4132.	2.5	17

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55	Influence of DC magnetron sputtering reaction gas on structural and optical characteristics of Ce-oxide thin films. <i>Ceramics International</i> , 2018, 44, 16450-16458.	2.3	17
56	Formation of phenoxy-type Environmental Persistent Free Radicals (EPFRs) from dissociative adsorption of phenol on Cu/Fe and their partial oxides. <i>Chemosphere</i> , 2020, 240, 124921.	4.2	17
57	Experimental and predicted mechanical properties of Cr <sub>1-x</sub> Al <sub>x</sub> N thin films, at high temperatures, incorporating in situ synchrotron radiation X-ray diffraction and computational modelling. <i>RSC Advances</i> , 2017, 7, 22094-22104.	1.7	16
58	Probing the effects of thermal treatment on the electronic structure and mechanical properties of Ti-doped ITO thin films. <i>Journal of Alloys and Compounds</i> , 2017, 721, 333-346.	2.8	16
59	Catalytic Hydrogenation of <i>p</i> -Chloronitrobenzene to <i>p</i> -Chloroaniline Mediated by $\text{Ir}^{\text{III}}\text{-Mo}_2\text{N}$ . <i>ACS Omega</i> , 2018, 3, 14380-14391.	1.6	15
60	Catalytic de-chlorination of products from PVC degradation by magnetite (Fe <sub>3</sub> O <sub>4</sub> ). <i>Applied Surface Science</i> , 2019, 480, 792-801.	3.1	15
61	Surface and interface analysis of poly-hydroxyethylmethacrylate-coated anodic aluminium oxide membranes. <i>Applied Surface Science</i> , 2014, 289, 560-563.	3.1	14
62	Improving the optoelectronic properties of titanium-doped indium tin oxide thin films. <i>Semiconductor Science and Technology</i> , 2017, 32, 065011.	1.0	14
63	An Insight into Geometries and Catalytic Applications of CeO <sub>2</sub> from a DFT Outlook. <i>Molecules</i> , 2021, 26, 6485.	1.7	14
64	Titanium oxide film for the bottom antireflective layer in deep ultraviolet lithography. <i>Applied Optics</i> , 1997, 36, 1482.	2.1	13
65	A Study of Cr-Al Oxides for Single-Layer Halftone Phase-Shifting Masks for Deep-Ultraviolet Region Photolithography. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 4008-4013.	0.8	13
66	An in situ chronoamperometry/synchrotron radiation grazing incidence X-ray diffraction study of the electrochemical oxidation of pyrite in chloride media. <i>Electrochemistry Communications</i> , 2006, 8, 1661-1664.	2.3	13
67	The structures and thermodynamic stability of copper(II) chloride surfaces. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24209-24215.	1.3	13
68	Understanding Local Bonding Structures of Ni-Doped Chromium Nitride Coatings through Synchrotron Radiation NEXAFS Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18573-18579.	1.5	13
69	NEXAFS N K -edge study of the bonding structure on Al/Si doped sputtered CrN coatings. <i>Journal of Alloys and Compounds</i> , 2016, 661, 268-273.	2.8	13
70	Double-sided F and Cl adsorptions on graphene at various atomic ratios: Geometric, orientation and electronic structure aspects. <i>Applied Surface Science</i> , 2016, 373, 65-72.	3.1	13
71	DFT+U and ab initio atomistic thermodynamics approach for mixed transitional metallic oxides: A case study of CoCu <sub>2</sub> O <sub>3</sub> surface terminations. <i>Materials Chemistry and Physics</i> , 2017, 201, 241-250.	2.0	13
72	Facile synthesis of a nanoporous sea sponge architecture in a binary metal oxide. <i>Nanoscale Advances</i> , 2019, 1, 1880-1892.	2.2	13

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73	Physico-chemical properties of CrMoN coatings - combined experimental and computational studies. <i>Thin Solid Films</i> , 2020, 693, 137671.	0.8	13
74	Tuning the morphology and redox behaviour by varying the concentration of Fe in a CoNiFe ternary oxide heterostructure for hybrid devices. <i>New Journal of Chemistry</i> , 2020, 44, 9921-9932.	1.4	13
75	A kinetic model for halogenation of the zinc content in franklinite. <i>Applied Surface Science</i> , 2021, 562, 150105.	3.1	13
76	Asymmetric broadening of the Cu 2p <sub>3/2</sub> photoelectron line. <i>Surface Science</i> , 2000, 466, L807-L810.	0.8	12
77	The Ag M5N45N45 Auger photoelectron coincidence spectra of disordered Ag <sub>0.5</sub> Pd <sub>0.5</sub> alloy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 130, 33-41.	0.8	12
78	In situ synchrotron radiation grazing incidence X-ray diffraction—A powerful technique for the characterization of solid-state ion-selective electrode surfaces. <i>Electrochimica Acta</i> , 2006, 51, 4886-4891.	2.6	12
79	Near-edge X-ray absorption fine structure studies of Cr <sub>1-x</sub> M <sub>x</sub> N coatings. <i>Journal of Alloys and Compounds</i> , 2013, 578, 362-368.	2.8	12
80	Structural and optical characteristics of pre- and post-annealed sol-gel derived CoCu-oxide coatings. <i>Journal of Alloys and Compounds</i> , 2017, 701, 222-235.	2.8	12
81	Thermo-elastic and optical properties of molybdenum nitride. <i>Canadian Journal of Physics</i> , 2016, 94, 902-912.	0.4	11
82	Thermo-mechanical properties of cubic titanium nitride. <i>Molecular Simulation</i> , 2018, 44, 415-423.	0.9	11
83	Simulation and fabrication of attenuated phase-shifting masks: CrF <sub>x</sub> . <i>Applied Optics</i> , 1997, 36, 7247.	2.1	10
84	Trends of elemental adsorption on graphene. <i>Canadian Journal of Physics</i> , 2016, 94, 437-447.	0.4	10
85	Probing the interactions of phenol with oxygenated functional groups on curved fullerene-like sheets in activated carbon. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3700-3705.	1.3	10
86	Structure, Stability, and (Non)Reactivity of the Low-Index Surfaces of Crystalline B <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2017, 121, 11346-11354.	1.5	10
87	Thermo-mechanical properties of cubic lanthanide oxides. <i>Thin Solid Films</i> , 2018, 653, 37-48.	0.8	10
88	Very-few-layer graphene obtained from facile two-step shear exfoliation in aqueous solution. <i>Chemical Engineering Science</i> , 2021, 245, 116848.	1.9	10
89	Factors Determining the Resistive Switching Behavior of Transparent InGaZnO-Based Memristors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	1.2	10
90	Effects of gas ring position and mesh introduction on film quality and thickness uniformity. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997, 45, 98-101.	1.7	9

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91	Dependence of the properties of $(\text{Sr}_x\text{Ti}_{1-x})\text{O}_3$ thin films deposited by plasma-enhanced metal-organic chemical vapor deposition on electron cyclotron resonance plasma. <i>Thin Solid Films</i> , 1997, 301, 154-161.	0.8	9
92	Towards a better understanding of the geometrical and orientational aspects of the electronic structure of halogens ( $\text{F}$ ) adsorption on graphene. <i>Applied Surface Science</i> , 2015, 356, 370-377.	3.1	9
93	Structural, electronic and thermodynamic properties of bulk and surfaces of terbium dioxide ( $\text{TbO}_2$ ). <i>Materials Research Express</i> , 2018, 5, 085901.	0.8	9
94	Preparation and Characterization of $(\text{Sr}_{1-x}\text{Ti}_x)\text{O}_3$ and $(\text{Ba}_{1-x}\text{Sr}_x)\text{TiO}_3$ Thin Films using ECR Plasma Assisted MOCVD. <i>Materials Research Society Symposia Proceedings</i> , 1996, 433, 9.	0.1	8
95	Crystallinity and morphological evolution of hydrothermally synthesized potassium manganese oxide nanowires. <i>Ceramics International</i> , 2014, 40, 1245-1250.	2.3	8
96	Structural, optical, and mechanical properties of cobalt copper oxide coatings synthesized from low concentrations of sol-gel process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 3205-3213.	0.8	8
97	Development of Organo-Dispersible Graphene Oxide via Pseudo-Surface Modification for Thermally Conductive Green Polymer Composites. <i>ACS Omega</i> , 2018, 3, 18124-18131.	1.6	8
98	Geometries, electronic properties and stability of molybdenum and tungsten nitrides low-index surfaces. <i>Materials Research Express</i> , 2018, 5, 126402.	0.8	8
99	Co-pyrolysis of polyethylene with products from thermal decomposition of brominated flame retardants. <i>Chemosphere</i> , 2020, 254, 126766.	4.2	8
100	Mass spectroscopic study for vaporization characteristics of $\text{Ba}(\text{TMHD})_2$ and $\text{Sr}(\text{TMHD})_2$ in electron cyclotron resonance-plasma enhanced metal organic chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997, 15, 72-76.	0.9	7
101	Corrosion- and Damage-Resistant Nitride Coatings for Steel. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2997-3004.	1.9	7
102	Influence of the variation in the Hubbard parameter ( $U$ ) on activation energies of $\text{CeO}_2$ -catalysed reactions. <i>Canadian Journal of Physics</i> , 2020, 98, 385-389.	0.4	7
103	Molybdenum nitrides from structures to industrial applications. <i>Reviews in Chemical Engineering</i> , 2023, 39, 329-361.	2.3	7
104	Hydrochar amendments stimulate soil nitrous oxide emission by increasing production of hydroxyl radicals and shifting nitrogen functional genes in the short term: A culture experiment. <i>Chemosphere</i> , 2022, 302, 134771.	4.2	7
105	Optical property simulation of single-layer halftone phaseshifting masks for DUV microlithography. <i>Semiconductor Science and Technology</i> , 1996, 11, 1450-1455.	1.0	6
106	Characterization of silicon nanowires grown on silicon, stainless steel and indium tin oxide substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 723-728.	1.1	6
107	Geometrical and orientational investigations on the electronic structure of graphene with adsorbed aluminium or silicon. <i>Materials and Design</i> , 2016, 89, 27-35.	3.3	6
108	High temperature in-situ phase stability of sputtered $\text{TiAl}_x\text{N}$ coatings. <i>Journal of Alloys and Compounds</i> , 2019, 786, 507-514.	2.8	6



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109	Single-layer halftone phase-shifting masks for DUV microlithography: optical property simulation and chromium compound film preparation. <i>Applied Surface Science</i> , 1997, 113-114, 680-684.	3.1	5
110	Evaluation of different chemical adjuvants on an avian influenza H6 DNA vaccine in chickens. <i>Avian Pathology</i> , 2016, 45, 649-656.	0.8	5
111	Catalytic de-halogenation of alkyl halides by copper surfaces. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7214-7224.	3.3	5
112	Studies of annealing impact on the morphological, opto-dielectric and mechanical behaviors of molybdenum-doped CrN coatings. <i>Thin Solid Films</i> , 2019, 677, 119-129.	0.8	5
113	A holistic analysis of surface, chemical bonding states and mechanical properties of sol-gel synthesized CoZn-oxide coatings complemented by finite element modeling. <i>Ceramics International</i> , 2019, 45, 10882-10898.	2.3	5
114	A mechanical and modelling study of magnetron sputtered cerium-titanium oxide film coatings on Si (100). <i>Ceramics International</i> , 2019, 45, 6875-6884.	2.3	5
115	High temperature (up to 1200°C) thermal-mechanical stability of Si and Ni doped CrN framework coatings. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2406-2419.	2.6	5
116	Structural, surface electronic bonding, optical, and mechanical features of sputtering deposited CrNiN coatings with Si and Al additives. <i>Materials Chemistry and Physics</i> , 2022, 277, 125289.	2.0	5
117	Spectroellipsometric characterization of SIMOX with nanometre-thick top Si layers. <i>Thin Solid Films</i> , 1998, 313-314, 264-269.	0.8	4
118	Development of a Nano-vaccine against a Wild Bird H6N2 Avian Influenza Virus. <i>Procedia in Vaccinology</i> , 2010, 2, 40-43.	0.4	4
119	Understanding the adsorptive interactions of arsenate-iron nanoparticles with curved fullerene-like sheets in activated carbon using a quantum mechanics/molecular mechanics computational approach. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14262-14268.	1.3	4
120	Electronic properties and stability phase diagrams for cubic BN surfaces. <i>Molecular Simulation</i> , 2017, 43, 267-275.	0.9	4
121	Phenol dissociation on pristine and defective graphene. <i>Surface Science</i> , 2017, 657, 10-14.	0.8	4
122	A first-principles study of the electronic, structural, and optical properties of CrN and Mo:CrN clusters. <i>Ceramics International</i> , 2019, 45, 17094-17102.	2.3	4
123	Mobility of Air-Stable p-type Polythiophene Field-Effect Transistors Fabricated Using Oxidative Chemical Vapor Deposition. <i>Journal of Electronic Materials</i> , 2020, 49, 3465-3471.	1.0	4
124	A LaFeO <sub>3</sub> supported natural clay mineral catalyst for efficient pyrolysis of polypropylene plastic material. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2695.	0.8	4
125	Response Mechanisms and New Approaches with Solid-State Ion-Selective Electrodes: A Powerful Multitechnique Materials Characterization Approach. <i>Electroanalysis</i> , 2006, 18, 1273-1281.	1.5	3
126	Interaction of Oxygen with $\sqrt{3}\times\sqrt{3}$ -Rhombohedral Boron (001) Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5968-5979.	1.5	3



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127	Surface structural and solar absorptance features of nitrate-based copper-cobalt oxides composite coatings: Experimental studies and molecular dynamic simulation. <i>Ceramics International</i> , 2018, 44, 15274-15280.	2.3	3
128	Nanorose-like ZnCo <sub>2</sub> O <sub>4</sub> coatings synthesized via sol-gel route: morphology, grain growth and DFT simulations. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 450-464.	1.1	3
129	Sliding wear of electro-carburized mild steel with different microstructures. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2021, 15, 213-228.	0.6	3
130	Fluorinated silicon nitride film for the bottom antireflective layer in quarter micron optical lithography. <i>Semiconductor Science and Technology</i> , 1997, 12, 921-926.	1.0	2
131	Spectroellipsometric characterization of thin silicon nitride films. <i>Thin Solid Films</i> , 1998, 313-314, 298-302.	0.8	2
132	Elucidating the surface geometric design of hydrophobic Australian Eucalyptus leaves: experimental and modeling studies. <i>Heliyon</i> , 2019, 5, e01316.	1.4	2
133	Theoretical study on the adsorption ability of (ZnO) <sub>6</sub> cluster for dimethylmercury removal and the influences of the supports and other ions in the adsorption process. <i>Adsorption</i> , 2020, 26, 1335-1344.	1.4	1
134	Integrated QMMM and Monte Carlo methods for analysis of adsorptive interactions between goethite cluster, carbon nanotubes, and arsenate. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25653.	1.0	0