

Nafarizal Nayan

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

838
citations

17
h-index

22
g-index

167
ext. papers

1,125
ext. citations

1.9
avg, IF

4.41
L-index

#	Paper	IF	Citations
129	Non-Polar Gallium Nitride for Photodetection Applications: A Systematic Review. <i>Coatings</i> , 2022 , 12, 275	2.9	1
128	A review of nanotechnological applications to detect and control surface water pollution. <i>Environmental Technology and Innovation</i> , 2021 , 24, 102032	7	10
127	FSS Design for Improving Transmission of Microwave Signals and Wireless Security in Modern Buildings. <i>Journal of Electronic Materials</i> , 2021 , 50, 3438-3446	1.9	2
126	Enhancement of spin Seebeck effect of reverse spin crossover Fe (II) micellar charge transport using PMMA polymer electrolyte. <i>Applied Organometallic Chemistry</i> , 2021 , 35, e6268	3.1	0
125	Interface study of hybrid CuO nanoparticles embedded ZnO nanowires heterojunction synthesized by controlled vapor deposition approach for optoelectronic devices. <i>Optical Materials</i> , 2021 , 117, 111132-33	3.3	2
124	Synthesis, characterization and biophysical evaluation of the 2D Ti ₂ CTx MXene using 3D spheroid-type cultures. <i>Ceramics International</i> , 2021 , 47, 22567-22577	5.1	10
123	Investigation of Si-based thermoelectrochemical cells (TECs) towards semiconductor fabrication and processing. <i>Semiconductor Science and Technology</i> , 2021 , 36, 115006	1.8	3
122	Cytotoxicity of MXene-based nanomaterials for biomedical applications: A mini review. <i>Environmental Research</i> , 2021 , 201, 111592	7.9	25
121	Inorganic thermoelectric materials: A review. <i>International Journal of Energy Research</i> , 2020 , 44, 6170-6223	4.5	47
120	Adsorption effect of oxygen on ZnO Nanowires (100 nm) leading towards pronounced edge effects and voltage enhancement. <i>Materials Research Express</i> , 2020 , 7, 095004	1.7	2
119	Annealing temperature induced improved crystallinity of YSZ thin film. <i>Materials Research Express</i> , 2020 , 7, 056406	1.7	1
118	ZnO nanowires based schottky contacts of Rh/ZnO interfaces for the enhanced performance of electronic devices. <i>Surfaces and Interfaces</i> , 2020 , 21, 100649	4.1	2
117	Surface Study of CuO Nanopetals by Advanced Nanocharacterization Techniques with Enhanced Optical and Catalytic Properties. <i>Nanomaterials</i> , 2020 , 10,	5.4	19
116	Bias voltage dependent structure and morphology evolution of magnetron sputtered YSZ thin film: a basic insight. <i>Materials Research Express</i> , 2019 , 6, 106414	1.7	2
115	Atmospheric pressure plasma needle jet treated on aluminium thin film for semiconductor industries. <i>Materials Today: Proceedings</i> , 2019 , 7, 715-720	1.4	2
114	Development of a Microdilution Device with One-step Dilution of Cytochalasin-B for Treating ORL-48 Cancer Microtissues. <i>Biotechnology and Bioprocess Engineering</i> , 2019 , 24, 761-772	3.1	
113	Effect of Deposition Time on Gd doped ZnO using Simultaneous RF and DC Sputtering 2019 ,		3

112	Improved Sensitivity and Selectivity of Direct Localized Surface Plasmon Resonance Sensor Using Gold Nanobipyramids for Glyphosate Detection. <i>IEEE Sensors Journal</i> , 2019 , 1-1	4	12
111	Low-temperature-dependent growth of titanium dioxide nanorod arrays in an improved aqueous chemical growth method for photoelectrochemical ultraviolet sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 1017-1033	2.1	5
110	Fabrication and characterization of rutile-phased titanium dioxide (TiO ₂) nanorods array with various reaction times using one step hydrothermal method. <i>Optik</i> , 2018 , 154, 510-515	2.5	15
109	Plasma diagnostic by optical emission spectroscopy on reactive magnetron sputtering plasma A Brief Introduction. <i>Journal of Physics: Conference Series</i> , 2018 , 1027, 012005	0.3	2
108	Difference in structural and chemical properties of sol-gel spin coated Al doped TiO, Y doped TiO and Gd doped TiO based on trivalent dopants.. <i>RSC Advances</i> , 2018 , 8, 29686-29697	3.7	13
107	Comparison of biophysical properties characterized for microtissues cultured using microencapsulation and liquid crystal based 3D cell culture techniques. <i>Cytotechnology</i> , 2018 , 70, 13-29	2.2	2
106	Effect of Scandium addition on evolution of microstructure, texture and mechanical properties of thermo-mechanically processed Al-Li alloy AA2195. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 364-374	5.7	30
105	One-step wet chemical synthesis of gold nanoplates on solid substrate using poly-l-lysine as a reducing agent. <i>MethodsX</i> , 2018 , 5, 1618-1625	1.9	6
104	Reduced graphene oxide-multiwalled carbon nanotubes hybrid film with low Pt loading as counter electrode for improved photovoltaic performance of dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 10723-10743	2.1	11
103	Effect of anneal temperature on fluorine doped tin oxide (FTO) nanostructured fabricated using hydrothermal method 2017 ,		3
102	A simple temperature evaluation in high-pressure magnetron sputtering plasma using optical emission spectroscopy (OES) technique 2017 ,		1
101	Dye-sensitized solar Cell using pure anatase TiO ₂ annealed at different temperatures. <i>Optik</i> , 2017 , 140, 1063-1068	2.5	20
100	The influence of N ₂ flow rate on Ar and Ti Emission in high-pressure magnetron sputtering system plasma 2017 ,		2
99	Differences between two strains of <i>Ceriporiopsis subvermispora</i> on improving the nutritive value of wheat straw for ruminants. <i>Journal of Applied Microbiology</i> , 2017 , 123, 352-361	4.7	14
98	Electrical and optical characteristics of atmospheric pressure plasma needle jet driven by neon transformer 2017 ,		1
97	Performance comparison between silicon solar panel and dye-sensitized solar panel in Malaysia 2017 ,		5
96	Development of atmospheric pressure plasma needle jet for sterilization applications 2017 ,		1
95	Hydrophobic rutile phase TiO ₂ nanostructure and its properties for self-cleaning application 2017 ,		3

94	Fabrication of TiO ₂ nanostructures on porous silicon for thermoelectric application 2017 ,		1
93	Zero voltage switching driver and flyback transformer for generation of atmospheric pressure plasma jet 2017 ,		2
92	Conductivity of Yttria-Stabilized Zirconia Nanostructure Electrolyte for Solid Oxide Fuel Cell Application by Using RF Magnetron Sputtering. <i>Solid State Phenomena</i> , 2017 , 268, 352-357	0.4	
91	Microstructure and Mechanical Properties of Cryorolled Aluminum Alloy AA2219 in Different Thermomechanical Processing Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 321-341	2.3	9
90	Rutile Phased Titanium Dioxide (TiO ₂) Nanorod/Nanoflower Based Waste Water Treatment Device. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 483-490	0.4	1
89	Hardware and circuit design of a vibrational cleaner. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 160, 012085	0.4	
88	Correlation between Microstructure of Copper Oxide Thin Films and its Gas Sensing Performance at Room Temperature. <i>Procedia Chemistry</i> , 2016 , 20, 45-51		5
87	Sputter Deposition of Cuprous and Cupric Oxide Thin Films Monitored by Optical Emission Spectroscopy for Gas Sensing Applications. <i>Procedia Chemistry</i> , 2016 , 20, 124-129		5
86	Influence of outlet channel width to the flow velocity and pressure of a flow focusing microfluidic device. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 160, 012086	0.4	4
85	Tunable single wavelength erbium-doped fiber ring laser based on in-line Mach-Zehnder strain. <i>Optik</i> , 2016 , 127, 8326-8332	2.5	19
84	Effect of heat treatment to the rutile based dye sensitized solar cell. <i>Optik</i> , 2016 , 127, 4076-4079	2.5	8
83	Investigation of the Structural, Optical and Electrical Properties of Gadolinium-Doped Zinc Oxide Films Prepared by Sol-Gel Method. <i>Advanced Materials Research</i> , 2016 , 1133, 424-428	0.5	5
82	Effects of Annealing Process on the Structural, Optical and Electrical Properties of Copper Oxide Thin Films Grown by Immersion Technique. <i>Advanced Materials Research</i> , 2016 , 1133, 439-443	0.5	
81	Effect of oxygen flow rate on the ultraviolet sensing properties of zinc oxide nanocolumn arrays grown by radio frequency magnetron sputtering. <i>Ceramics International</i> , 2016 , 42, 4107-4119	5.1	22
80	HANDLING EMERGENCE OF DYNAMIC VISUAL REPRESENTATION DESIGN FOR COMPLEX ACTIVITIES IN THE COLLABORATION. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016 , 78,	1.2	2
79	Titanium dioxide-based Q-switched dual wavelength in the 1 micron region. <i>Chinese Optics Letters</i> , 2016 , 14, 091403-91407	2.2	17
78	Absolute densities of Cu, Zn, Sn, and S atoms in magnetron sputtering plasmas employing a Cu ₂ ZnSnS ₄ target. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 07LC02	1.4	0
77	A portable respiratory rate estimation system with a passive single-lead electrocardiogram acquisition module. <i>Technology and Health Care</i> , 2016 , 24, 591-7	1.1	7

76	Absorbance Analysis of Escherichia coli (E. coli) Bacteria Suspension in Polydimethylsiloxane (PDMS)-Glass Based Microfluidic. <i>Advanced Materials Research</i> , 2016 , 1133, 65-69	0.5	3
75	Raman investigation of rutile-phased TiO ₂ nanorods/nanoflowers with various reaction times using one step hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 7920-7926	2.1	18
74	Precise Control of Metal Oxide Thin Films Deposition in Magnetron Sputtering Plasmas for High Performance Sensing Devices Fabrication. <i>Procedia Chemistry</i> , 2016 , 20, 93-97		5
73	Metamorphosis of the ZnO buffer layer thicknesses on the performance of inverted organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12891-12902	2.1	1
72	Silicon-based microring resonators for multi-solitons generation for THz communication. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	8
71	Ag-nanoparticle as a Q switched device for tunable C-band fiber laser. <i>Optics Communications</i> , 2016 , 381, 85-90	2	23
70	High-Temperature Deformation Processing Map Approach for Obtaining the Desired Microstructure in a Multi-component (Ni-Ti-Cu-Fe) Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2201-2215	2.3	8
69	Influence of Oxygen Flow Rate on Sputter Deposition Rate and SEM Image of Copper Oxide Thin Films. <i>Applied Mechanics and Materials</i> , 2015 , 773-774, 711-715	0.3	1
68	Analysis of Microstructure and Texture Evolution in Mg-3Al-1Zn Alloy Processed Through Groove Rolling. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 2091-2098	1.6	6
67	Fabrication of inverted bulk heterojunction organic solar cells based on conjugated P3HT:PCBM using various thicknesses of ZnO buffer layer. <i>Optik</i> , 2015 , 126, 645-648	2.5	6
66	Initial User Requirement Analysis for Waterbodies Data Visualization. <i>Lecture Notes in Computer Science</i> , 2015 , 89-98	0.9	0
65	2D and 3D Analyses of Metal Oxide Thin Films Examined by Atomic Force Microscope. <i>Applied Mechanics and Materials</i> , 2015 , 773-774, 716-719	0.3	
64	Influence of Different Solvents on the Formation of Uniform Titanium Dioxide (TiO ₂) Thin Film by Sol-Gel. <i>Applied Mechanics and Materials</i> , 2015 , 773-774, 667-671	0.3	0
63	Derivation of GdxZn1-xO Film: The Effects of Gd Concentration on the Structural, Morphological and Optical Properties. <i>Applied Mechanics and Materials</i> , 2015 , 773-774, 686-690	0.3	
62	Fabrication of Intrinsic Zinc Oxide-Coated, Aluminium-Doped Zinc Oxide Nanorod Array-Based Ultraviolet Photoconductive Sensors. <i>Applied Mechanics and Materials</i> , 2015 , 773-774, 696-700	0.3	
61	Sticking probabilities of Cu, Zn, Sn, and S atoms in magnetron sputtering plasmas employing a Cu ₂ ZnSnS ₄ stoichiometric target. <i>Vacuum</i> , 2015 , 121, 26-31	3.7	6
60	Direct Growth of Copper(II) Oxide (CuO) Nanostructures Films via One-Step Chemical Bath Deposition by pH Variation. <i>Applied Mechanics and Materials</i> , 2015 , 773-774, 637-641	0.3	
59	Influence of Oxygen Flow Rate on the Characteristics of the Tungsten Oxide Using RF Magnetron Sputtering. <i>Applied Mechanics and Materials</i> , 2015 , 773-774, 657-661	0.3	0

58	Effect of Nitrogen-to-Total Gas Flow Ratio on the Nanocomposite TiAlBN Coating. <i>Applied Mechanics and Materials</i> , 2015 , 761, 431-435	0.3	1
57	Influence of Polyaniline Coated Kenaf Fiber on Kenaf Paper Sheet. <i>MATEC Web of Conferences</i> , 2015 , 27, 01002	0.3	
56	A Review on The Exploration of Nanomaterials Application in Pavement Engineering. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015 , 73,	1.2	13
55	Kinetics of the Pyrolysis and Combustion Characteristics of Non-edible Oilseeds (Karanja and Neem Seed) Using Thermogravimetric Analysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015 , 37, 2352-2359	1.6	6
54	Analysis of the Effect of Growth Parameters on Graphene Synthesized by Chemical Vapor Deposition. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2015 , 10, 50-55	1.3	4
53	Methodology for the Development of Interface Design Guidelines Based on Local Cultural Dimensions. <i>Communications in Computer and Information Science</i> , 2015 , 245-248	0.3	1
52	Oxide semiconductors for solar to chemical energy conversion: nanotechnology approach. <i>Ionics</i> , 2014 , 20, 581-592	2.7	3
51	Effect of Substrate Bias in Copper Sputtering Plasma Measured by Langmuir Probe. <i>Advanced Materials Research</i> , 2014 , 925, 238-242	0.5	1
50	Effects of Ageing Time of ZnO Sol on Properties of ZnO Films by Sol Gel Spin Coating. <i>Advanced Materials Research</i> , 2014 , 925, 329-333	0.5	1
49	Numerical Simulation of Water Flow Velocity for Microfluidic Application Using COMSOL Multiphysics. <i>Advanced Materials Research</i> , 2014 , 925, 651-655	0.5	1
48	Biophysical characteristics of cells cultured on cholesteryl ester liquid crystals. <i>Micron</i> , 2014 , 56, 73-9	2.3	19
47	Characterization of acrylate-based ChemFET sensor for nitrate sensing and monitoring 2014 ,		1
46	Warm Mix Asphalt Technology: A Review. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 71,	1.2	8
45	Performance of P3HT:PCBM Organic Solar Cell with ZnO Buffer Layer. <i>Advanced Materials Research</i> , 2014 , 925, 580-584	0.5	1
44	Influences of Preheating Temperature on the Structural and Optical Properties of ZnO Thin Films by So-Gel Spin Coating Technique. <i>Advanced Materials Research</i> , 2014 , 925, 401-405	0.5	1
43	Surface Morphology and Electrical Properties of Al:ZnO Films Deposited by Spin Coating Process. <i>Advanced Materials Research</i> , 2014 , 925, 416-419	0.5	
42	Fabrication and Characterisation of the Electrical and Physical Properties of the Mask Printed Graphite Paste Electrodes on Paper Substrates. <i>Advanced Materials Research</i> , 2014 , 925, 510-513	0.5	2
41	FPGA design and implementation of Electrocardiogram biomedical embedded system 2014 ,		3

40	Transmission of Microwave Signal through Metal-Oxide Thin Film of Energy Saving Glass Using Different Shape of Frequency Selective Structure. <i>Advanced Materials Research</i> , 2014 , 925, 630-634	0.5	2
39	Electron and Ion Densities Measurement in Reactive Magnetron Zinc Sputtering Plasma. <i>Advanced Materials Research</i> , 2013 , 832, 344-349	0.5	
38	Ambient and cryogenic tensile properties of AA2195T87 sheets with pre-aging cold work by a combination of cold rolling and stretching. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 585, 475-479	5.3	19
37	Performance of Ultraviolet Photoconductive Sensor Based on Aluminium-Doped Zinc Oxide Nanorod-Nanoflake Network Thin Film Using Aluminium Contacts. <i>Advanced Materials Research</i> , 2013 , 832, 298-302	0.5	1
36	Morphology, topography and thickness of copper oxide thin films deposited using magnetron sputtering technique 2013 ,		2
35	Interfacial study of cell adhesion to liquid crystals using widefield surface plasmon resonance microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 110, 156-62	6	12
34	Influence of Dissipation Power in Copper Sputtering Plasma Measured by Optical Emission Spectroscopy. <i>Advanced Materials Research</i> , 2013 , 832, 243-247	0.5	
33	Investigation of Stress and Electrical Properties of Air-Annealed and Oxygen-Annealed Aluminium-Doped Zinc Oxide Nanorod Arrays. <i>Advanced Materials Research</i> , 2013 , 832, 303-309	0.5	
32	Optimization of Transmission Lost for Energy Saving Glass with Different Sheet Resistance Values. <i>Advanced Materials Research</i> , 2013 , 832, 233-236	0.5	1
31	Surface Morphology and Optical Properties of ZnO Films Synthesis Using Different Solvent. <i>Advanced Materials Research</i> , 2013 , 832, 478-482	0.5	2
30	Surface Tension Analysis of Cost-Effective Paraffin Wax and Water Flow Simulation for Microfluidic Device. <i>Advanced Materials Research</i> , 2013 , 832, 773-777	0.5	2
29	Effects of trypsin and cytochalasin-B treatments to cell traction forces 2012 ,		1
28	ZnO nanostructures grown on porous silicon substrate without catalyst 2012 ,		1
27	Synthesis characteristics of Cu particulates in high-pressure magnetron sputtering plasmas studied by in situ laser-light scattering. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 505202	3	7
26	Characterization of TiAlBN Nanocomposite Coating Deposited via Radio Frequency Magnetron Sputtering Using Single Hot-Pressed Target. <i>Advanced Materials Research</i> , 2012 , 626, 298-301	0.5	6
25	Study on the use of TiO ₂ passivation layer to reduce recombination losses in dye sensitized solar cells 2012 ,		1
24	Corrosion Behavior of AZ91 Mg-Alloy Coated with AlN and TiN in NaCl and Hank's Solution. <i>Advanced Materials Research</i> , 2012 , 626, 275-279	0.5	6
23	Sol-Gel Synthesis of TiO ₂ Thin Films from In-House Nano-TiO ₂ Powder. <i>Advances in Materials Physics and Chemistry</i> , 2012 , 02, 16-20	0.5	7

22	Enhancement of Ti+density in high-pressure magnetron sputtering plasmas. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 124012	3	7
21	Morphological and optical characteristics of porous silicon structure formed by electrochemical etching 2010 ,		1
20	Optimization of RF magnetron sputtering plasma using Zn target 2010 ,		3
19	Investigations of Production Processes of Ti+in High-Pressure Magnetron Sputtering Plasmas. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 126003	1.4	6
18	Healing of fatigue damage in NiTi shape memory alloys. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 185408	5	52
17	Production of Ar metastable atoms in the late afterglow of pulse-modulated rf magnetron sputtering plasmas. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 035206	3	20
16	Unnotched fatigue behavior of an austenitic NiTi shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 333-340	5.3	32
15	Are dominant sputtering products from metal targets really monatomic?. <i>Vacuum</i> , 2008 , 83, 463-466	3.7	7
14	Sticking probability of Ti atoms in magnetron sputtering deposition evaluated from the spatial distribution of Ti atom density. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 308-311	2.9	9
13	Measurement of Cu atom density in a magnetron sputtering plasma source using an YBaCuO target by laser-induced fluorescence imaging spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 2100-2104	2.9	9
12	Deposition profile of Ti film inside a trench and its correlation with gas-phase ionization in high-pressure magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 2206-2211	2.9	17
11	Two-Dimensional Distributions of Ti and Ti+Densities in High-Pressure Magnetron Sputtering Discharges. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L737-L739	1.4	23
10	Computation of the homogenization regime for aluminum alloy AA2219 on the basis of diffusion theory. <i>Metal Science and Heat Treatment</i> , 2005 , 47, 522-525	0.6	4
9	Spatial distribution of the velocity distribution function of Fe atoms in a magnetron sputtering plasma source. <i>Journal of Applied Physics</i> , 2005 , 98, 043310	2.5	25
8	Mixing Studies Related to the Cleaning of Molten Aluminium. <i>Chemical Engineering and Technology</i> , 2004 , 27, 310-314	2	8
7	The investigation of chlorpyrifos (Cpy) detection of PEDOT:PSS-MXene(Ti2CTX)-BSA-GO composite using P-ISFET reduction method. <i>Polymer Bulletin</i> ,1	2.4	
6	Thermoelectric Generator: Materials and Applications in Wearable Health Monitoring Sensors and Internet of Things Devices. <i>Advanced Materials Technologies</i> ,2101203	6.8	6
5	Effects of Oxygen (O2) Plasma Treatment in Promoting the Germination and Growth of Chili. <i>Plasma Chemistry and Plasma Processing</i> ,1	3.6	2

4	The effect of deposition time on the properties of titanium dioxide thin film prepared using CVD. <i>IOP Conference Series: Materials Science and Engineering</i> ,982, 012064	0.4	
3	Influence of Substrate Rotational Speed on the Structural and Optical Properties of Sputtered Gd-Doped ZnO Thin Films. <i>Materials Science Forum</i> ,1023, 3-8	0.4	0
2	Influence of Various Target to Substrate Distances on the Structural and Optical Properties of Sputtered Gd-Doped ZnO Thin Films. <i>Solid State Phenomena</i> ,317, 471-476	0.4	1
1	Investigation on the Structural and Electrical Properties of ZnO Thin Films Co-Doped with Rare Earth Gd and Al Prepared by Co-Sputtering Method. <i>Materials Science Forum</i> ,1053, 143-147	0.4	