

Chinnuswamy Viswanathan

List of Publications by Year in descending order

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119
papers

3,838
citations

101543

36
h-index

149698

56
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120
all docs

120
docs citations

120
times ranked

5013
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape evolution of perovskite LaFeO ₃ nanostructures: a systematic investigation of growth mechanism, properties and morphology dependent photocatalytic activities. RSC Advances, 2013, 3, 7549.	3.6	206
2	Controlled synthesis of perovskite LaFeO ₃ microsphere composed of nanoparticles via self-assembly process and their associated photocatalytic activity. Chemical Engineering Journal, 2012, 209, 420-428.	12.7	172
3	Enzymatic electrochemical glucose biosensors by mesoporous 1D hydroxyapatite-on-2D reduced graphene oxide. Journal of Materials Chemistry B, 2015, 3, 1360-1370.	5.8	148
4	Conducting polyaniline-graphene oxide fibrous nanocomposites: preparation, characterization and simultaneous electrochemical detection of ascorbic acid, dopamine and uric acid. RSC Advances, 2013, 3, 14428.	3.6	130
5	Novel Synthesis of LaFeO ₃ Nanostructure Dendrites: A Systematic Investigation of Growth Mechanism, Properties, and Biosensing for Highly Selective Determination of Neurotransmitter Compounds. Crystal Growth and Design, 2013, 13, 291-302.	3.0	115
6	Synthesis and Characterization of Mgo Nanoparticles by Neem Leaves through Green Method. Materials Today: Proceedings, 2015, 2, 4360-4368.	1.8	112
7	Carbon fiber based electrochemical sensor for sweat cortisol measurement. Scientific Reports, 2019, 9, 403.	3.3	105
8	Quercetin conjugated superparamagnetic magnetite nanoparticles for in-vitro analysis of breast cancer cell lines for chemotherapy applications. Journal of Colloid and Interface Science, 2014, 436, 234-242.	9.4	102
9	Hydrothermal synthesis of highly stable CuO nanostructures for efficient photocatalytic degradation of organic dyes. Materials Science in Semiconductor Processing, 2015, 30, 585-591.	4.0	95
10	Effect of cation substitution in MnCo ₂ O ₄ spinel anchored over rGO for enhancing the electrocatalytic activity towards oxygen evolution reaction (OER). International Journal of Hydrogen Energy, 2020, 45, 6391-6403.	7.1	81
11	Trace level electrochemical determination of the neurotransmitter dopamine in biological samples based on iron oxide nanoparticle decorated graphene sheets. Inorganic Chemistry Frontiers, 2018, 5, 705-718.	6.0	70
12	ZnO Nanorod Integrated Flexible Carbon Fibers for Sweat Cortisol Detection. ACS Applied Electronic Materials, 2020, 2, 499-509.	4.3	69
13	Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system. Applied Thermal Engineering, 2019, 148, 1416-1424.	6.0	66
14	Effect of NaOH concentration on structural, surface and antibacterial activity of CuO nanorods synthesized by direct sonochemical method. Superlattices and Microstructures, 2014, 66, 1-9.	3.1	57
15	Hydrothermal synthesis of novel Zn doped CuO nanoflowers as an efficient photodegradation material for textile dyes. Materials Letters, 2015, 144, 127-130.	2.6	56
16	Shape evolution and size controlled synthesis of mesoporous hydroxyapatite nanostructures and their morphology dependent Pb(II) removal from waste water. RSC Advances, 2014, 4, 37446-37457.	3.6	54
17	Synthesis of hierarchical WO ₃ nanostructured thin films with enhanced electrochromic performance for switchable smart windows. RSC Advances, 2015, 5, 96416-96427.	3.6	54
18	Effect of annealing and electrochemical properties of sol-gel dip coated nanocrystalline V ₂ O ₅ thin films. Materials Science in Semiconductor Processing, 2013, 16, 256-262.	4.0	53

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19	Review "Towards Wearable Sensor Platforms for the Electrochemical Detection of Cortisol. Journal of the Electrochemical Society, 2020, 167, 067508.	2.9	53
20	Core-shell hydroxyapatite/Mg nanostructures: surfactant free facile synthesis, characterization and their in vitro cell viability studies against leukaemia cancer cells (K562). RSC Advances, 2015, 5, 48705-48711.	3.6	52
21	Magnetic graphene/chitosan nanocomposite: A promising nano-adsorbent for the removal of 2-naphthol from aqueous solution and their kinetic studies. International Journal of Biological Macromolecules, 2020, 159, 530-538.	7.5	52
22	Strong quantum confinement effect in nanocrystalline cerium oxide. Materials Letters, 2011, 65, 2635-2638.	2.6	51
23	Edge-carboxylated graphene anchoring magnetite-hydroxyapatite nanocomposite for an efficient 4-nitrophenol sensor. RSC Advances, 2015, 5, 13392-13401.	3.6	50
24	Optical constants of DC magnetron sputtered titanium dioxide thin films measured by spectroscopic ellipsometry. Crystal Research and Technology, 2003, 38, 773-778.	1.3	49
25	Two dimensional \pm -MoO ₃ nanosheets decorated carbon cloth electrodes for high-performance supercapacitors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 569, 137-144.	4.7	49
26	The effect of annealing on vacuum-evaporated copper selenide and indium telluride thin films. Materials Characterization, 2007, 58, 756-764.	4.4	47
27	Influence of growth and photocatalytic properties of copper selenide (CuSe) nanoparticles using reflux condensation method. Applied Surface Science, 2013, 283, 802-807.	6.1	47
28	Optical and electrochemical studies of polyaniline/SnO ₂ fibrous nanocomposites. Materials Research Bulletin, 2013, 48, 640-645.	5.2	46
29	Influence of Growth Parameters on the Formation of Hydroxyapatite (HAp) Nanostructures and Their Cell Viability Studies. Nanobiomedicine, 2015, 2, 2.	5.7	46
30	Tailoring the morphology and size of perovskite BiFeO ₃ nanostructures for enhanced magnetic and electrical properties. Materials and Design, 2020, 192, 108694.	7.0	46
31	Preparation and characterization of electrodeposited indium selenide thin films. Crystal Research and Technology, 2005, 40, 557-562.	1.3	45
32	Synthesis, morphology, optical and photocatalytic performance of nanostructured \hat{I}^2 -Ga ₂ O ₃ . Materials Research Bulletin, 2013, 48, 2296-2303.	5.2	44
33	Exchange spring magnetic behavior in BaFe ₁₂ O ₁₉ /Fe ₃ O ₄ nanocomposites. Journal of Magnetism and Magnetic Materials, 2016, 406, 233-238.	2.3	44
34	Enhanced photocatalytic performance of novel self-assembled floral \hat{I}^2 -Ga ₂ O ₃ nanorods. Current Applied Physics, 2013, 13, 652-658.	2.4	41
35	N-doped Graphene/ZnFe ₂ O ₄ : A novel nanocomposite for intrinsic peroxidase based sensing of H ₂ O ₂ . Materials Research Bulletin, 2017, 95, 1-8.	5.2	39
36	Review "Systematic Review on Electrochemical Biosensing of Breast Cancer miRNAs to Develop Alternative DCIS Diagnostic Tool. , 2022, 1, 021602.		39

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37	Electrical conductivity and single oscillator model properties of amorphous CuSe semiconductor thin film. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2934-2937.	3.1	38
38	An in vitro analysis of H1N1 viral inhibition using polymer coated superparamagnetic Fe ₃ O ₄ nanoparticles. <i>RSC Advances</i> , 2014, 4, 13409.	3.6	37
39	Rheological behavior and electrical properties of polypyrrole/thermally reduced graphene oxide nanocomposite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 614-622.	4.7	37
40	Influence of substrate temperature on the properties of vacuum evaporated InSb films. <i>Crystal Research and Technology</i> , 2005, 40, 573-578.	1.3	36
41	Nitrogen doped carbon nanofibers loaded with hierarchical vanadium tetrasulfide for the voltammetric detection of the non-steroidal anti-prostate cancer drug nilutamide. <i>Mikrochimica Acta</i> , 2019, 186, 141.	5.0	35
42	Facile in situ growth of Fe ₃ O ₄ nanoparticles on hydroxyapatite nanorods for pH dependent adsorption and controlled release of proteins. <i>RSC Advances</i> , 2014, 4, 50510-50520.	3.6	34
43	Diatom-Based Label-Free Optical Biosensor for Biomolecules. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1166-1173.	2.9	33
44	Novel multiform morphologies of hydroxyapatite: Synthesis and growth mechanism. <i>Applied Surface Science</i> , 2016, 361, 25-32.	6.1	32
45	Superhydrophobic Ag decorated ZnO nanostructured thin film as effective surface enhanced Raman scattering substrates. <i>Applied Surface Science</i> , 2015, 355, 969-977.	6.1	31
46	MnCo ₂ O ₄ -rGO Hybrid Magnetic Nanocomposite Modified Glassy Carbon Electrode for Sensitive Detection of L-Tryptophan. <i>Journal of the Electrochemical Society</i> , 2019, 166, B845-B852.	2.9	31
47	Enhanced electrochemical activities of morphologically tuned MnFe ₂ O ₄ nanoneedles and nanoparticles integrated on reduced graphene oxide for highly efficient supercapacitor electrodes. <i>Nanoscale Advances</i> , 2021, 3, 2887-2901.	4.6	30
48	Organic additives assisted synthesis of mesoporous β -Ga ₂ O ₃ nanostructures for photocatalytic dye degradation. <i>Semiconductor Science and Technology</i> , 2013, 28, 035015.	2.0	29
49	A nanocomposite of NiFe ₂ O ₄ @PANI as a duo active electrocatalyst toward the sensitive colorimetric and electrochemical sensing of ascorbic acid. <i>Nanoscale Advances</i> , 2020, 2, 3481-3493.	4.6	28
50	Highly selective and sensitive electrochemical detection of dopamine with hydrothermally prepared β -MnO ₂ nanostructures. <i>Materials Science in Semiconductor Processing</i> , 2018, 83, 216-223.	4.0	27
51	Self assembly of Co doped CeO ₂ microspheres from nanocubes by hydrothermal method and their photodegradation activity on AO7. <i>Materials Letters</i> , 2011, 65, 3320-3322.	2.6	26
52	Electrochemical Simultaneous Detection of Dopamine, Ascorbic Acid and Uric Acid Using LaMnO ₃ Nanostructures. <i>Journal of the Electrochemical Society</i> , 2016, 163, B460-B465.	2.9	26
53	LaCoO ₃ Nanostructures Modified Glassy Carbon Electrode for Simultaneous Electrochemical Detection of Dopamine, Ascorbic Acid and Uric Acid. <i>Journal of the Electrochemical Society</i> , 2017, 164, B152-B158.	2.9	26
54	Magnetic nanoparticle-decorated graphene oxide-chitosan composite as an efficient nanocarrier for protein delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125913.	4.7	26

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55	Rapid one-pot synthesis of PAM-GO-Ag nanocomposite hydrogel by gamma-ray irradiation for remediation of environment pollutants and pathogen inactivation. <i>Chemosphere</i> , 2021, 275, 130061.	8.2	26
56	Enzyme like-colorimetric sensing of H ₂ O ₂ based on intrinsic peroxidase mimic activity of WS ₂ nanosheets anchored reduced graphene oxide. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161669.	5.5	26
57	Tin Oxide/Reduced Graphene Oxide Nanocomposite-Modified Electrode for Selective and Sensitive Detection of Riboflavin. <i>Journal of the Electrochemical Society</i> , 2018, 165, B498-B507.	2.9	25
58	Nanostructured SnO ₂ integrated conductive fabrics as binder-free electrode for neurotransmitter detection. <i>Sensors and Actuators A: Physical</i> , 2018, 269, 401-411.	4.1	22
59	Fe ₂ O ₃ /polyaniline supramolecular nanocomposite: A receptor free sensor platform for the quantitative determination of serum creatinine. <i>Analytica Chimica Acta</i> , 2020, 1137, 103-114.	5.4	22
60	Morphologically tuned LaMnO ₃ as an efficient nanocatalyst for the removal of organic dye from aqueous solution under sunlight. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104146.	6.7	22
61	Highly monodispersed Ag embedded SiO ₂ nanostructured thin film for sensitive SERS substrate: growth, characterization and detection of dye molecules. <i>RSC Advances</i> , 2015, 5, 46229-46239.	3.6	21
62	MoO ₃ nanostructure on carbon cloth substrate for dopamine detection. <i>Nanotechnology</i> , 2019, 30, 265501.	2.6	21
63	Rheological behavior and Electrical and thermal properties of polypyrrole/graphene oxide nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	20
64	Selective and low potential electrocatalytic oxidation and sensing of L-cysteine using metal impurity containing carbon black modified electrode. <i>Analytical Methods</i> , 2017, 9, 6791-6800.	2.7	20
65	Facile synthesis of monodispersed 3D hierarchical Fe ₃ O ₄ nanostructures decorated r-GO as the negative electrodes for Li-ion batteries. <i>Materials Research Bulletin</i> , 2018, 97, 272-280.	5.2	20
66	Hydrophilic polymer coated monodispersed Fe ₃ O ₄ nanostructures and their cytotoxicity. <i>Materials Research Express</i> , 2014, 1, 015015.	1.6	19
67	Circumferential growth of zinc oxide nanostructure anchored over carbon fabric and its photocatalytic performance towards p-nitrophenol. <i>Superlattices and Microstructures</i> , 2019, 125, 159-167.	3.1	19
68	Electrochemical behavior of nanostructured SnO ₂ thin films in aqueous electrolyte solutions. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 55-61.	4.0	17
69	NiCo ₂ O ₄ nanoparticles inlaid on sulphur and nitrogen doped and co-doped rGO sheets as efficient electrocatalysts for the oxygen evolution and methanol oxidation reactions. <i>Nanoscale Advances</i> , 2021, 3, 3216-3231.	4.6	17
70	Space charge limited current, variable range hopping and mobility gap in thermally evaporated amorphous InSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2004, 15, 787-792.	2.2	16
71	Effect of Yb substitution on room temperature magnetic and dielectric properties of bismuth ferrite nanoparticles. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	16
72	Engineering the surface of graphene oxide with bovine serum albumin for improved biocompatibility in <i>Caenorhabditis elegans</i> . <i>Nanoscale Advances</i> , 2020, 2, 5219-5230.	4.6	16

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73	Surfactant free solvothermal synthesis of monodispersed 3D hierarchical Fe ₃ O ₄ microspheres. <i>Materials Letters</i> , 2013, 110, 98-101.	2.6	15
74	Self-assembled SnO ₂ /reduced graphene oxide nanocomposites via Langmuir-Blodgett technique as anode materials for Li-ion batteries. <i>Materials Letters</i> , 2018, 218, 295-298.	2.6	15
75	Surfactant-free solvothermal synthesis of Hydroxyapatite nested bundles for the effective photodegradation of cationic dyes. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 116, 180-186.	4.0	15
76	Surface Imprinted Ag Decorated MnO ₂ Thin Film Electrodes for the Synergic Electrochemical Detection of Bacterial Pathogens. <i>Journal of the Electrochemical Society</i> , 2019, 166, G1-G9.	2.9	15
77	Improved microbial growth inhibition activity of bio-surfactant induced Ag@TiO ₂ core shell nanoparticles. <i>Applied Surface Science</i> , 2015, 327, 504-516.	6.1	14
78	Formulation Of SnO ₂ /graphene Nanocomposite Modified Electrode For Synergistic Electrochemical Detection Of Dopamine. <i>Advanced Materials Letters</i> , 2015, 6, 973-977.	0.6	14
79	Detection of typhoid fever by diatom-based optical biosensor. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20385-20390.	5.3	12
80	SnO ₂ nanoflakes deposited carbon yarn-based electrochemical immunosensor towards cortisol measurement. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 115-127.	9.1	12
81	Fabric Based Wearable Biosensor for Continuous Monitoring of Steroids. <i>ECS Transactions</i> , 2017, 77, 1841-1846.	0.5	11
82	N-Doped graphene with anchored ZnFe ₂ O ₄ nanostructures as an anode for lithium ion batteries with enhanced reversible capacity and cyclic performance. <i>New Journal of Chemistry</i> , 2018, 42, 16564-16570.	2.8	11
83	Design and fabrication of MEMS based intracranial pressure sensor for neurons study. <i>Vacuum</i> , 2019, 163, 204-209.	3.5	11
84	Conduction studies on electrodeposited indium selenide thin films. <i>Ionics</i> , 2004, 10, 300-303.	2.4	9
85	Effect of substrate temperature on the properties of vacuum evaporated indium selenide thin films. <i>Crystal Research and Technology</i> , 2005, 40, 658-664.	1.3	9
86	Graphene nanosheets by low-temperature thermal reduction of graphene oxide using RF-CVD. <i>Journal of Experimental Nanoscience</i> , 2013, 8, 311-319.	2.4	9
87	Amine-functionalized diatom frustules: a platform for specific and sensitive detection of nitroaromatic explosive derivative. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20540-20549.	5.3	9
88	Mesoporous nickel oxide nanostructures: influences of crystalline defects and morphological features on mediator-free electrochemical monosaccharide sensor application. <i>Nanotechnology</i> , 2020, 31, 215501.	2.6	9
89	Influence on effective and ineffective delamination of MXene (Ti ₃ C ₂ T _x) by tightly anchoring tin oxide nanocomposite for boosting the specific capacitance of supercapacitor. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166092.	5.5	9
90	Novel synthesis of silver nanoparticles using 2,3,5,6-tetrakis-(morpholinomethyl) hydroquinone as reducing agent. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 305-309.	3.9	8

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91	Self-Assembly of Nanostructured Hydroxyapatite Spheres for Photodegradation of Methylene Blue Dye. <i>Materials Today: Proceedings</i> , 2019, 18, 1729-1734.	1.8	8
92	Comparative Study of Biological (Phoenix loureiroi Fruit) and Chemical Synthesis of Chitosan-Encapsulated Zinc Oxide Nanoparticles and their Biological Properties. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 15-28.	3.0	8
93	Effect of CuO, MoO ₃ and ZnO nanomaterial coated absorbers for clean water production. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	8
94	An electrochemical dopamine sensor based on RF magnetron sputtered TiO ₂ /SS thin film electrode. <i>Materials Letters</i> , 2021, 300, 130175.	2.6	8
95	Characterization of vacuum evaporated In - Se thin films. <i>Ionics</i> , 2004, 10, 311-316.	2.4	7
96	Electrochemical performance of SnO ₂ hexagonal nanoplates. <i>Ionics</i> , 2014, 20, 335-346.	2.4	7
97	Facile Approach for Synthesis of GO/ZnO Nanocomposite for Highly Efficient Photocatalytic Degradation of Organic Dyes under Visible Light. <i>Nano Hybrids and Composites</i> , 2017, 17, 121-126.	0.8	7
98	Synthesis and Characterization of Hexagonal Prism like Zinc Oxide for Electrochemical Determination of Gallic Acid in Wine Samples. <i>International Journal of Electrochemical Science</i> , 2019, , 4769-4780.	1.3	7
99	Substrate temperature induced enhanced selectivity and sensitivity for nanomolar gallic acid detection on RF magnetron sputtered ZnO/GS thin film electrode. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112368.	4.1	7
100	Sm ³⁺ rare-earth doping in non-noble metal oxide WO ₃ grown on carbon cloth fibre as a bifunctional electrocatalyst for high-performance water electrolysis. <i>Sustainable Energy and Fuels</i> , 0, , .	4.9	7
101	Influence of supporting electrolytes on the structure of electrodeposited SnO ₂ thin films for energy storage applications. <i>Ionics</i> , 2016, 22, 1837-1846.	2.4	6
102	One-step preparation of N-doped grapheme quantum dots with high quantum yield for bioimaging and highly sensitive electrochemical detection of isoniazid. , 2022, 135, 212731.		6
103	Highly stable and selective LaNiO ₃ nanostructures modified glassy carbon electrode for simultaneous electrochemical detection of neurotransmitting compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 618, 126387.	4.7	5
104	Effect Of Catalyst Concentration On The Synthesis Of MWCNT By Single Step Pyrolysis. <i>Advanced Materials Letters</i> , 2014, 5, 543-548.	0.6	4
105	Waste cigarette butt derived Carbon/Magnesium oxide nanocomposite as potential adsorbent for the removal of ciprofloxacin from waste water. <i>Materials Letters</i> , 2022, 312, 131668.	2.6	4
106	Electrodeposition of Macroporous SnO ₂ /TiO ₂ Thin Films and Its Electrochemical Applications. <i>Materials Focus</i> , 2015, 4, 245-251.	0.4	3
107	Development of RF magnetron-sputtered molybdenum oxide-modified carbon cloth thin film as a ferulic acid sensor. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3
108	Molecular nanodevices based on functionalized cyclodextrins. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2532-2535.	1.8	2

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109	Preparation of New Reducing Agent for the Synthesis of Silver Nanoparticles. , 2011, , .		2
110	Electrodeposition of SnO ₂ nanoneedles on anodized copper substrates and its electrochemical performance. , 2013, , .		2
111	A comparative analysis of green synthesis approach starch capped metal oxides (ZnO & CdO) nanoparticles and its bacterial activity. , 2013, , .		2
112	Textile Fiber Electrode to Monitor Uric Acid as a Marker for Assessing Wound Chronicity. ECS Transactions, 2017, 80, 1277-1286.	0.5	2
113	Synergetic effect of hierarchical zinc oxide (ZnO) nanostructure with enhanced adsorption and antibacterial action towards waterborne detrimental contaminants. Applied Nanoscience (Switzerland), 2021, 11, 2181-2198.	3.1	1
114	ZnO-based electrochemical sensors for highly sensitive and selective detection of gallic acid at impact of substrate temperature. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1
115	Engineering the semiconducting CdS nanostructures by N-doped rGO for enhancing the adsorption sites: Promising electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 16106-16120.	7.1	1
116	Revealing the Role of Brønsted Basicity by the Electrocatalytic Reaction via Li Insertion in the MgFe ₂ O ₄ Lattice. Journal of Physical Chemistry C, 0, , .	3.1	1
117	<title>Characterization of vacuum-evaporated In ₇₀ Se ₃₀ thin films</title>. , 2004, 5774, 283.		0
118	Sheathing Polymer Gels Fibrils with Nanotubules. Macromolecular Symposia, 2007, 251, 11-14.	0.7	0
119	Electrodeposition of V ₂ O ₅ nanorods on current collector substrate. , 2012, , .		0