Suguru Noda

List of Publications by Citations

163 papers	4,362 citations	35 h-index	59 g-index
166 ext. papers	5,509 ext. citations	7 avg, IF	6.53 L-index

#	Paper	IF	Citations
163	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. *ACS Nano*, **2018**, 12, 11756-11784	16.7	239
162	Amorphous Catalysts and Electrochemical Water Splitting: An Untold Story of Harmony. *Small*, **2020**, 16, e1905779	11	210
161	Self-polymerized dopamine as an organic cathode for Li- and Na-ion batteries. *Energy and Environmental Science*, **2017**, 10, 205-215	35.4	181
160	Millimeter-Thick Single-Walled Carbon Nanotube Forests: Hidden Role of Catalyst Support. *Japanese Journal of Applied Physics*, **2007**, 46, L399-L401	1.4	180
159	Structure and morphology of self-assembled 3-mercaptopropyltrimethoxysilane layers on silicon oxide. *Applied Surface Science*, **2001**, 181, 307-316	6.7	143
158	The Fe Effect: A review unveiling the critical roles of Fe in enhancing OER activity of Ni and Co based catalysts. *Nano Energy*, **2021**, 80, 105514	17.1	138
157	Electrochemical polymerization of pyrene derivatives on functionalized carbon nanotubes for pseudocapacitive electrodes. *Nature Communications*, **2015**, 6, 7040	17.4	132
156	Millimeter-tall single-walled carbon nanotubes rapidly grown with and without water. *ACS Nano*, **2011**, 5, 975-84	16.7	110
155	Self-standing positive electrodes of oxidized few-walled carbon nanotubes for light-weight and high-power lithium batteries. *Energy and Environmental Science*, **2012**, 5, 5437-5444	35.4	109
154	Progress in nickel chalcogenide electrocatalyzed hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 4174-4192	13	95
153	Comprehensive perspective on the mechanism of preferred orientation in reactive-sputter-deposited nitrides. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2003**, 21, 1943-1954	2.9	89
152	Multiple Optimum Conditions for Co-Mo catalyzed growth of vertically aligned single-walled carbon nanotube forests. *Carbon*, **2009**, 47, 234-241	10.4	88
151	A simple combinatorial method to discover Co-Mo binary catalysts that grow vertically aligned single-walled carbon nanotubes. *Carbon*, **2006**, 44, 1414-1419	10.4	81
150	The Pitfalls of Using Potentiodynamic Polarization Curves for Tafel Analysis in Electrocatalytic Water Splitting. *ACS Energy Letters*,1607-1611	20.1	79
149	Initial growth and texture formation during reactive magnetron sputtering of TiN on Si(111). *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2002**, 20, 583-588	2.9	67
148	One-step sub-10 nm patterning of carbon-nanotube thin films for transparent conductor applications. *ACS Nano*, **2014**, 8, 3285-93	16.7	66
147	Spectroscopic study of laser-induced phase transition of gold nanoparticles on nanosecond time scales and longer. *Journal of Physical Chemistry B*, **2006**, 110, 3114-9	3.4	63

146	Strategies and Perspectives to Catch the Missing Pieces in Energy-Efficient Hydrogen Evolution Reaction in Alkaline Media. *Angewandte Chemie - International Edition*, **2021**, 60, 18981-19006	16.4	59
145	Nickel selenides as pre-catalysts for electrochemical oxygen evolution reaction: A review. *International Journal of Hydrogen Energy*, **2020**, 45, 15763-15784	6.7	58
144	Sub-millimeter-long carbon nanotubes repeatedly grown on and separated from ceramic beads in a single fluidized bed reactor. *Carbon*, **2011**, 49, 1972-1979	10.4	57
143	Moderating carbon supply and suppressing Ostwald ripening of catalyst particles to produce 4.5-mm-tall single-walled carbon nanotube forests. *Carbon*, **2011**, 49, 4497-4504	10.4	57
142	Self-organized metallic nanoparticle and nanowire arrays from ion-sputtered silicon templates. *Applied Physics Letters*, **2008**, 93, 063106	3.4	57
141	Appropriate Use of Electrochemical Impedance Spectroscopy in Water Splitting Electrocatalysis. *ChemElectroChem*, **2020**, 7, 2297-2308	4.3	54
140	A new insight into the growth mode of metals on TiO2(110). *Surface Science*, **2002**, 513, 530-538	1.8	53
139	Millimeter-tall single-walled carbon nanotube forests grown from ethanol. *Carbon*, **2010**, 48, 2203-2211	10.4	51
138	Ultrafast Growth of a Cu(OH)-CuO Nanoneedle Array on Cu Foil for Methanol Oxidation Electrocatalysis. *ACS Applied Materials & Interfaces*, **2020**, 12, 27327-27338	9.5	49
137	Combinatorial method to prepare metal nanoparticles that catalyze the growth of single-walled carbon nanotubes. *Applied Physics Letters*, **2005**, 86, 173106	3.4	45
136	Preferred Orientation of Chemical Vapor Deposited Polycrystalline Silicon Carbide Films. *Chemical Vapor Deposition*, **2002**, 8, 99-104		42
135	Effect of interfacial interactions on the initial growth of Cu on clean SiO2 and 3-mercaptopropyltrimethoxysilane-modified SiO2 substrates. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2002**, 20, 589-596	2.9	41
134	Growth mode during initial stage of chemical vapor deposition. *Applied Surface Science*, **2005**, 245, 281-289	6.7	39
133	Over 99.6 wt%-pure, sub-millimeter-long carbon nanotubes realized by fluidized-bed with careful control of the catalyst and carbon feeds. *Carbon*, **2014**, 80, 339-350	10.4	38
132	Combinatorial Surface-Enhanced Raman Spectroscopy and Spectroscopic Ellipsometry of Silver Island Films. *Journal of Physical Chemistry C*, **2009**, 113, 4820-4828	3.8	37
131	Growth window and possible mechanism of millimeter-thick single-walled carbon nanotube forests. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 6123-8	1.3	37
130	Carbon Nanotube Web with Carboxylated Polythiophene "Assist" for High-Performance Battery Electrodes. *ACS Nano*, **2018**, 12, 3126-3139	16.7	35
129	Biomass-derived carbonaceous positive electrodes for sustainable lithium-ion storage. *Nanoscale*, **2016**, 8, 3671-7	7.7	35

128	The effect of atmospheric tarnishing on the optical and structural properties of silver nanoparticles. *Journal Physics D: Applied Physics*, **2013**, 46, 145308	3	35
127	Initial growth stage of nanoscaled TiN films: Formation of continuous amorphous layers and thickness-dependent crystal nucleation. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2003**, 21, 1717-1723	2.9	35
126	Diameter Increase in Millimeter-Tall Vertically Aligned Single-Walled Carbon Nanotubes during Growth. *Applied Physics Express*, **2010**, 3, 045103	2.4	34
125	The Significance of Properly Reporting Turnover Frequency in Electrocatalysis Research. *Angewandte Chemie - International Edition*, **2021**, 60, 23051-23067	16.4	34
124	Fluidized-bed synthesis of sub-millimeter-long single walled carbon nanotube arrays. *Carbon*, **2012**, 50, 1538-1545	10.4	32
123	Carbon nanotube 3D current collectors for lightweight, high performance and low cost supercapacitor electrodes. *RSC Advances*, **2014**, 4, 8230	3.7	31
122	Hierarchical networks of redox-active reduced crumpled graphene oxide and functionalized few-walled carbon nanotubes for rapid electrochemical energy storage. *Nanoscale*, **2016**, 8, 12330-8	7.7	30
121	Composite of TiN nanoparticles and few-walled carbon nanotubes and its application to the electrocatalytic oxygen reduction reaction. *Chemistry - an Asian Journal*, **2012**, 7, 286-9	4.5	30
120	Cold-gas chemical vapor deposition to identify the key precursor for rapidly growing vertically-aligned single-wall and few-wall carbon nanotubes from pyrolyzed ethanol. *Carbon*, **2012**, 50, 2953-2960	10.4	30
119	All-Soft Supercapacitors Based on Liquid Metal Electrodes with Integrated Functionalized Carbon Nanotubes. *ACS Nano*, **2020**, 14, 5659-5667	16.7	27
118	Real-Time Monitoring of Millimeter-Tall Vertically Aligned Single-Walled Carbon Nanotube Growth on Combinatorial Catalyst Library. *Japanese Journal of Applied Physics*, **2010**, 49, 085104	1.4	26
117	Growth Valley Dividing Single- and Multi-Walled Carbon Nanotubes: Combinatorial Study of Nominal Thickness of Co Catalyst. *Japanese Journal of Applied Physics*, **2008**, 47, 1961-1965	1.4	26
116	Direct synthesis of few- and multi-layer graphene films on dielectric substrates by “etching-precipitation” method. *Carbon*, **2015**, 82, 254-263	10.4	25
115	Improved capacity of redox-active functional carbon cathodes by dimension reduction for hybrid supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 3367-3375	13	25
114	Filling the gap between researchers studying different materials and different methods: a proposal for structured keywords. *Journal of Information Science*, **2006**, 32, 511-524	2	25
113	Simple and engineered process yielding carbon nanotube arrays with 1.2 ×1013 cm−2 wall density on conductive underlayer at 400 °C. *Carbon*, **2015**, 81, 773-781	10.4	24
112	Lithium ion batteries made of electrodes with 99 wt% active materials and 1 wt% carbon nanotubes without binder or metal foils. *Journal of Power Sources*, **2016**, 321, 155-162	8.9	24
111	Millimeter-tall carbon nanotube arrays grown on aluminum substrates. *Carbon*, **2018**, 130, 834-842	10.4	22

110	Individuals, grasses, and forests of single- and multi-walled carbon nanotubes grown by supported Co catalysts of different nominal thicknesses. *Applied Surface Science*, **2008**, 254, 6710-6714	6.7	22
109	CO2-assisted growth of millimeter-tall single-wall carbon nanotube arrays and its advantage against H2O for large-scale and uniform synthesis. *Carbon*, **2018**, 136, 143-149	10.4	22
108	Overcoming the quality–quantity tradeoff in dispersion and printing of carbon nanotubes by a repetitive dispersion–extraction process. *Carbon*, **2015**, 91, 20-29	10.4	21
107	Achieving Increased Electrochemical Accessibility and Lowered Oxygen Evolution Reaction Activation Energy for Co2+ Sites with a Simple Anion Preoxidation. *Journal of Physical Chemistry C*, **2020**, 124, 9673-9684	3.8	21
106	Amorphous-to-crystalline transition during the early stages of thin film growth of Cr on SiO2. *Journal of Applied Physics*, **2003**, 93, 9336-9344	2.5	21
105	Combinatorial masked deposition: simple method to control deposition flux and its spatial distribution. *Applied Surface Science*, **2004**, 225, 372-379	6.7	20
104	Influence of Deposition Temperature on the Microstructure of Pb-Ti-Nb-O Thin Films by Metallorganic Chemical Vapor Deposition. *Journal of the Electrochemical Society*, **2001**, 148, C227	3.9	20
103	Surface amorphized nickel hydroxy sulphide for efficient hydrogen evolution reaction in alkaline medium. *Chemical Engineering Journal*, **2021**, 408, 127275	14.7	20
102	Flame-assisted chemical vapor deposition for continuous gas-phase synthesis of 1-nm-diameter single-wall carbon nanotubes. *Carbon*, **2018**, 138, 1-7	10.4	19
101	Methane-assisted chemical vapor deposition yielding millimeter-tall single-wall carbon nanotubes of smaller diameter. *ACS Nano*, **2013**, 7, 6719-28	16.7	19
100	A Simple Combinatorial Method Aiding Research on Single-Walled Carbon Nanotube Growth on Substrates. *Japanese Journal of Applied Physics*, **2010**, 49, 02BA02	1.4	19
99	Structural and morphological control of nanosized Cu islands on SiO2 using a Ti underlayer. *Journal of Applied Physics*, **2003**, 94, 3492-3497	2.5	19
98	Supported Ni catalysts from nominal monolayer grow single-walled carbon nanotubes. *Chemical Physics Letters*, **2006**, 428, 381-385	2.5	18
97	Incubation Time during Chemical Vapor Deposition of Si onto SiO2 from Silane. *Chemical Vapor Deposition*, **2004**, 10, 128-133		18
96	Carbon nanotube–silicon heterojunction solar cells with surface-textured Si and solution-processed carbon nanotube films. *RSC Advances*, **2016**, 6, 93575-93581	3.7	17
95	Zeolite Surface As a Catalyst Support Material for Synthesis of Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2011**, 115, 24231-24237	3.8	17
94	Field Emission Properties of Single-Walled Carbon Nanotubes with a Variety of Emitter Morphologies. *Japanese Journal of Applied Physics*, **2008**, 47, 4780-4787	1.4	17
93	A simple and fast method to disperse long single-walled carbon nanotubes introducing few defects. *Carbon*, **2011**, 49, 3179-3183	10.4	16

92	A review on recent developments in electrochemical hydrogen peroxide synthesis with a critical assessment of perspectives and strategies. *Advances in Colloid and Interface Science*, **2021**, 287, 102331	14.3	16
91	Denser and taller carbon nanotube arrays on Cu foils useable as thermal interface materials. *Japanese Journal of Applied Physics*, **2015**, 54, 095102	1.4	15
90	Life Cycle Greenhouse Gas Emissions of Long and Pure Carbon Nanotubes Synthesized via On-Substrate and Fluidized-Bed Chemical Vapor Deposition. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1730-1740	8.3	15
89	Ultra-long carbon nanotube forest via in situ supplements of iron and aluminum vapor sources. *Carbon*, **2021**, 172, 772-780	10.4	15
88	Effects of substrate heating and biasing on nanostructural evolution of nonepitaxially grown TiN nanofilms. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2003**, 21, 2512		14
87	Nucleation of W during Chemical Vapor Deposition from WF6and SiH4. *Japanese Journal of Applied Physics*, **2004**, 43, 3945-3950	1.4	14
86	Electrolysis of ammonia in aqueous solution by platinum nanoparticles supported on carbon nanotube film electrode. *Electrochimica Acta*, **2020**, 341, 136027	6.7	13
85	A-few-second synthesis of silicon nanoparticles by gas-evaporation and their self-supporting electrodes based on carbon nanotube matrix for lithium secondary battery anodes. *Journal of Power Sources*, **2017**, 363, 450-459	8.9	13
84	Thickness-gradient dependent Raman enhancement in silver island films. *Applied Physics Letters*, **2009**, 94, 053106	3.4	13
83	Preferred orientation and film structure of TaN films deposited by reactive magnetron sputtering. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2004**, 22, 332-338	2.9	13
82	Outstanding Low-Temperature Performance of Structure-Controlled Graphene Anode Based on Surface-Controlled Charge Storage Mechanism. *Advanced Functional Materials*, **2021**, 31, 2009397	15.6	13
81	Enhanced Lithium Storage of an Organic Cathode via the Bipolar Mechanism. *ACS Applied Energy Materials*, **2020**, 3, 3728-3735	6.1	12
80	Important factors for effective use of carbon nanotube matrices in electrochemical capacitor hybrid electrodes without binding additives. *RSC Advances*, **2015**, 5, 16101-16111	3.7	12
79	Gas-Phase Hydroxyl Radical Generation by the Surface Reactions over Basic Metal Oxides. *Journal of Physical Chemistry B*, **1998**, 102, 3185-3191	3.4	12
78	50–100 μm-thick pseudocapacitive electrodes of MnO2 nanoparticles uniformly electrodeposited in carbon nanotube papers. *RSC Advances*, **2016**, 6, 41496-41505	3.7	12
77	Enhancing the photovoltaic performance of hybrid heterojunction solar cells by passivation of silicon surface via a simple 1-min annealing process. *Scientific Reports*, **2019**, 9, 12051	4.9	11
76	Highly air- and moisture-stable hole-doped carbon nanotube films achieved using boron-based oxidant. *Applied Physics Express*, **2017**, 10, 035101	2.4	10
75	Volumetric Discharge Capacity 1 A h cm−3 Realized by Sulfur in Carbon Nanotube Sponge Cathodes. *Journal of Physical Chemistry C*, **2019**, 123, 3951-3958	3.8	10

74	One-minute deposition of micrometre-thick porous Si–Cu anodes with compositional gradients on Cu current collectors for lithium secondary batteries. *Journal of Power Sources*, **2015**, 286, 540-550	8.9	10
73	Chemical Leaching of Inactive Cr and Subsequent Electrochemical Resurfacing of Catalytically Active Sites in Stainless Steel for High-Rate Alkaline Hydrogen Evolution Reaction. *ACS Applied Energy Materials*, **2020**, 3, 12596-12606	6.1	10
72	Dispersing and doping carbon nanotubes by poly(p-styrene-sulfonic acid) for high-performance and stable transparent conductive films. *Carbon*, **2020**, 164, 150-156	10.4	10
71	A Color-Tunable Polychromatic Organic-Light-Emitting-Diode Device With Low Resistive Intermediate Electrode for Roll-to-Roll Manufacturing. *IEEE Transactions on Electron Devices*, **2016**, 63, 402-407	2.9	10
70	Pushing the Limits of Rapid Anodic Growth of CuO/Cu(OH)2 Nanoneedles on Cu for the Methanol Oxidation Reaction: Anodization pH Is the Game Changer. *ACS Applied Energy Materials*, **2021**, 4, 899-912	6.1	10
69	Strategies and Perspectives to Catch the Missing Pieces in Energy-Efficient Hydrogen Evolution Reaction in Alkaline Media. *Angewandte Chemie*, **2021**, 133, 19129-19154	3.6	10
68	Self-supporting S@GO-FWCNTs composite films as positive electrodes for high-performance lithium-sulfur batteries.. *RSC Advances*, **2018**, 8, 2260-2266	3.7	9
67	Stability of Chemically Doped Nanotube–Silicon Heterojunction Solar Cells: Role of Oxides at the Carbon–Silicon Interface. *ACS Applied Energy Materials*, **2019**, 2, 5925-5932	6.1	9
66	Combinatorial Evaluation for Field Emission Properties of Carbon Nanotubes. *Journal of Physical Chemistry C*, **2008**, 112, 17974-17982	3.8	9
65	Reaction of Si with HCl to Form Chlorosilanes. *Journal of the Electrochemical Society*, **2004**, 151, C399	3.9	9
64	A Simple Index to Restrain Abnormal Protrusions in Films Fabricated Using CVD under Diffusion-Limited Conditions. *Chemical Vapor Deposition*, **2004**, 10, 221-228		9
63	Boosting the oxygen evolution activity of copper foam containing trace Ni by intentionally supplementing Fe and forming nanowires in anodization. *Electrochimica Acta*, **2020**, 364, 137170	6.7	9
62	A Semitransparent Nitride Photoanode Responsive up to ≅600 nm Based on a Carbon Nanotube Thin Film Electrode. *ChemPhotoChem*, **2019**, 3, 521-524	3.3	8
61	An interdigitated electrode with dense carbon nanotube forests on conductive supports for electrochemical biosensors. *Analyst, The*, **2018**, 143, 3635-3642	5	8
60	Nanostructure and magnetic properties of c-axis oriented L10-FePt nanoparticles and nanocrystalline films on polycrystalline TiN underlayers. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 031801	1.3	8
59	Growth mechanism of epitaxial CoSi2 on Si and reactive deposition epitaxy of double heteroepitaxial Si/CoSi2/Si. *Thin Solid Films*, **2008**, 516, 3989-3995	2.2	8
58	Wettability and crystalline orientation of Cu nanoislands on SiO2 with a Cr underlayer. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 625-628	2.6	8
57	Why Shouldn't Double-Layer Capacitance (Cdl) Be Always Trusted to Justify Faradaic Electrocatalytic Activity Differences?. *Journal of Electroanalytical Chemistry*, **2021**, 115842	4.1	8

56	Catalyst nucleation and carbon nanotube growth from flame-synthesized Co-Al-O nanopowders at ten-second time scale. *Carbon*, **2017**, 114, 31-38	10.4	7
55	1.5 Minute-synthesis of continuous graphene films by chemical vapor deposition on Cu foils rolled in three dimensions. *Chemical Engineering Science*, **2019**, 201, 319-324	4.4	7
54	Facile catalyst deposition using mists for fluidized-bed production of sub-millimeter-long carbon nanotubes. *Carbon*, **2020**, 167, 256-263	10.4	7
53	Gd-Enhanced Growth of Multi-Millimeter-Tall Forests of Single-Wall Carbon Nanotubes. *ACS Nano*, **2019**, 13, 13208-13216	16.7	7
52	One second growth of carbon nanotube arrays on a glass substrate by pulsed-current heating. *Carbon*, **2012**, 50, 2110-2118	10.4	7
51	Efficient field emission from triode-type 1D arrays of carbon nanotubes. *Nanotechnology*, **2009**, 20, 475707	3.4	7
50	Use of process indices for simplification of the description of vapor deposition systems. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2004**, 111, 156-163	3.1	7
49	Mechanisms Controlling Preferred Orientation of Chemical Vapour Deposited Polycrystalline Films. *Solid State Phenomena*, **2003**, 93, 411-418	0.4	7
48	Gas-Phase Hydroxyl Radical Emission in the Thermal Decomposition of Lithium Hydroxide. *Journal of Physical Chemistry B*, **1999**, 103, 1954-1959	3.4	7
47	One-minute deposition of micrometre-thick porous Si anodes for lithium ion batteries. *RSC Advances*, **2015**, 5, 2938-2946	3.7	6
46	High-energy density LixSi-S full cell based on 3D current collector of few-wall carbon nanotube sponge. *Carbon*, **2020**, 161, 612-621	10.4	6
45	Effective Heat Transfer Pathways of Thermally Conductive Networks Formed by One-Dimensional Carbon Materials with Different Sizes. *Polymers*, **2019**, 11,	4.5	6
44	Worrisome Exaggeration of Activity of Electrocatalysts Destined for Steady-State Water Electrolysis by Polarization Curves from Transient Techniques. *Journal of the Electrochemical Society*, **2022**, 169, 014508	3.9	6
43	Combinatorial Evaluation for Field Emission Properties of Carbon Nanotubes Part II: High Growth Rate System. *Journal of Physical Chemistry C*, **2010**, 114, 12938-12947	3.8	5
42	Two-Dimensional Combinatorial Investigation of Raman and Fluorescence Enhancement in Silver and Gold Sandwich Substrates. *Journal of Physical Chemistry C*, **2009**, 113, 9588-9594	3.8	5
41	Structure and magnetic property of c-axis oriented L10-FePt nanoparticles on TiN/a-Si underlayers. *Journal of Vacuum Science & Technology B*, **2007**, 25, 1892		5
40	Stranski-Krastanov Growth of Tungsten during Chemical Vapor Deposition Revealed by Micro-Auger Electron Spectroscopy. *Japanese Journal of Applied Physics*, **2004**, 43, 6974-6977	1.4	5
39	Structuring knowledge on nanomaterials processing. *Chemical Engineering Science*, **2004**, 59, 5085-5090	4.4	5

38	Fast and stable hydrogen storage in the porous composite of MgH2 with Nb2O5 catalyst and carbon nanotube. *Journal of Alloys and Compounds*, **2022**, 893, 162206	5.7	5
37	Rapid vapour deposition and in situ melt crystallization for 1 min fabrication of 10 □m-thick crystalline silicon films with a lateral grain size of over 100 □m. *CrystEngComm*, **2016**, 18, 3404-3410	3.3	5
36	Performance enhancement of carbon nanotube/silicon solar cell by solution processable MoOx. *Applied Surface Science*, **2021**, 542, 148682	6.7	5
35	Nanotubes make battery lighter and safer. *Carbon*, **2020**, 167, 596-600	10.4	4
34	Critical effect of nanometer-size surface roughness of a porous Si seed layer on the defect density of epitaxial Si films for solar cells by rapid vapor deposition. *CrystEngComm*, **2018**, 20, 1774-1778	3.3	4
33	Growth of Trumpet-Like Protrusions During the CVD of Silicon Carbide Films. *Chemical Vapor Deposition*, **2002**, 8, 52-55		4
32	Cone Structure Formation by Preferred Growth of Random Nuclei in Chemical Vapor Deposited Epitaxial Silicon Films. *Chemical Vapor Deposition*, **2002**, 8, 87-89		4
31	c-Axis Oriented Face-Centered-Tetragonal-FePt Nanoparticle Monolayer Formed on a Polycrystalline TiN Seed Layer. *Japanese Journal of Applied Physics*, **2005**, 44, 7957-7961	1.4	4
30	Layered 2D PtX2 (X = S, Se, Te) for the electrocatalytic HER in comparison with Mo/WX2 and Pt/C: are we missing the bigger picture?. *Energy and Environmental Science*,	35.4	4
29	Selective Silicidation of Co Using Silane or Disilane for Anti-Oxidation Barrier Layer in Cu Metallization. *Japanese Journal of Applied Physics*, **2004**, 43, 6001-6007	1.4	3
28	Internal Microstructure and Formation Mechanism of Surface Protrusions in Pb-Ti-Nb-O Thin Films Prepared by MOCVD. *Chemical Vapor Deposition*, **2001**, 7, 253-259		3
27	Self-Supporting Hybrid Supercapacitor Electrodes Based on Carbon Nanotube and Activated Carbons. *Eurasian Chemico-Technological Journal*, **2018**, 20, 169	0.8	3
26	High-energy-density Li□S battery with positive electrode of lithium polysulfides held by carbon nanotube sponge. *Carbon*, **2021**, 182, 32-41	10.4	3
25	iR drop correction in electrocatalysis: everything one needs to know!. *Journal of Materials Chemistry A*,	13	3
24	Efficient Methanol Electrooxidation Catalyzed by Potentiostatically Grown Cu□O/OH(Ni) Nanowires: Role of Inherent Ni Impurity. *ACS Applied Energy Materials*, **2022**, 5, 419-429	6.1	3
23	Ten-Second Epitaxy of Cu on Repeatedly Used Sapphire for Practical Production of High-Quality Graphene. *ACS Omega*, **2017**, 2, 3354-3362	3.9	2
22	Spontaneous formation of Si nanocones vertically aligned to Si wafers. *Journal of Vacuum Science & Technology B*, **2007**, 25, 808		2
21	Thermal properties of single-walled carbon nanotube forests with various volume fractions. *International Journal of Heat and Mass Transfer*, **2021**, 171, 121076	4.9	2

20	Two-Dimensional Polydopamine Positive Electrodes for High-Capacity Alkali Metal-Ion Storage. *ChemElectroChem*, **2021**, 8, 1070-1077	4.3	2
19	Fluidized-bed production of 0.3 mm-long single-wall carbon nanotubes at 28% carbon yield with 0.1 mass% catalyst impurities using ethylene and carbon dioxide. *Carbon*, **2021**, 182, 23-31	10.4	2
18	Controllable pore structures of pure and sub-millimeter-long carbon nanotubes. *Applied Surface Science*, **2021**, 566, 150751	6.7	2
17	Nano-Scale Smoothing of Double Layer Porous Si Substrates for Detaching and Fabricating Low Cost, High Efficiency Monocrystalline Thin Film Si Solar Cell by Zone Heating Recrystallization. *ECS Transactions*, **2017**, 75, 11-23	1	1
16	12.3: 1-Second Implementation of CNT-Emitter Arrays on Glasses for BLUs. *Digest of Technical Papers SID International Symposium*, **2009**, 40, 139	0.5	1
15	Two routes to polycrystalline CoSi2 thin films by co-sputtering Co and Si. *Applied Surface Science*, **2010**, 256, 7118-7124	6.7	1
14	CHEMICAL ENGINEERING FOR TECHNOLOGY INNOVATION. *Chemical Engineering Communications*, **2008**, 196, 267-276	2.2	1
13	High-performance solution-based silicon heterojunction solar cells using carbon nanotube with polymeric acid doping. *Carbon*, **2021**, 175, 519-524	10.4	1
12	Direct formation of continuous multilayer graphene films with controllable thickness on dielectric substrates. *Thin Solid Films*, **2019**, 675, 136-142	2.2	1
11	Carbon nanotube/silicon heterojunction solar cell with an active area of 4 cm2 realized using a multifunctional molybdenum oxide layer. *Carbon*, **2021**, 185, 215-223	10.4	1
10	Enhanced CO2-assisted growth of single-wall carbon nanotube arrays using Fe/AlO catalyst annealed without CO2. *Carbon*, **2021**, 185, 264-271	10.4	1
9	Layered 2D transition metal (W, Mo, and Pt) chalcogenides for hydrogen evolution reaction **2022**, 495-525		1
8	Systematic investigation of anode catalysts for liquid ammonia electrolysis. *Journal of Catalysis*, **2022**, 406, 222-230	7.3	0
7	The Significance of Properly Reporting Turnover Frequency in Electrocatalysis Research. *Angewandte Chemie*, **2021**, 133, 23235	3.6	0
6	Tailoring the Morphology of Carbon Nanotube Assemblies Using Microgradients in the Catalyst Thickness. *Japanese Journal of Applied Physics*, **2011**, 50, 095101	1.4	
5	Nanostructural Evolution in Non-Epitaxial Growth of Thin Films. *Materials Research Society Symposia Proceedings*, **2006**, 961, 1		
4	Novel Analytical Method of Nanoparticle Dispersibility in Polymer Nanocomposites; TEM-CT and 3D Topological Analysis. *Journal of the Ceramic Society of Japan*, **2006**, 114, 638-642		
3	NO Reduction under the Excess O2 Condition by Porous VYCOR Catalyst.. *Journal of Chemical Engineering of Japan*, **2001**, 34, 834-839	0.8	

2	Tailoring the Morphology of Carbon Nanotube Assemblies Using Micrograd ients in the Catalyst Thickness. *Japanese Journal of Applied Physics*, **2011**, 50, 095101	1.4
1	Resettable Heterogeneous Catalyst: (Re)Generation and (Re)Adsorption of Ni Nanoparticles for Repeated Synthesis of Carbon Nanotubes on Al2O3 Thin Films. *ACS Applied Nano Materials*, **2018**, 1, 5483-5492	5.6