Ladislav Kavan

List of Publications by Year
in descending order

325 papers	17,534 citations	19657 61 h-index	17105 122 g-index
349 all docs	349 docs citations	349 times ranked	17172 citing authors

#	Article	IF	Citations
1	Inherent electrochemical activity of TiO2 (anatase, rutile) enhances the charge capacity of cathodes of lithium-sulfur batteries. Journal of Solid State Electrochemistry, 2022, 26, 639-647.	2.5	10
2	Atom by atom built subnanometer copper cluster catalyst for the highly selective oxidative dehydrogenation of cyclohexene. Journal of Chemical Physics, 2022, 156, 114302.	3.0	6
3	Surface Sensitivity of Hydrogen Evolution and Formaldehyde Reduction on Differently Oriented TiO2 Anatase Nanocrystals. Electrocatalysis, 2021, 12, 15-25.	3.0	2
4	Atomic layer deposited films of Al2O3 on fluorine-doped tin oxide electrodes: stability and barrier properties. Beilstein Journal of Nanotechnology, 2021, 12, 24-34.	2.8	1
5	Work Function of TiO₂ (Anatase, Rutile, and Brookite) Single Crystals: Effects of the Environment. Journal of Physical Chemistry C, 2021, 125, 1902-1912.	3.1	77
6	Nanocrystalline TiO2/Carbon/Sulfur Composite Cathodes for Lithiumâ€“Sulfur Battery. Nanomaterials, 2021, 11, 541.	4.1	8
7	In Situ Raman Microdroplet Spectroelectrochemical Investigation of CuSCN Electrodeposited on Different Substrates. Nanomaterials, 2021, 11, 1256.	4.1	3
8	Reconstruction of SnO2 after cathodic polarization of FTO films - A simple way of fabricating orthorhombic SnO2. Materials Chemistry and Physics, 2021, 273, 125038.	4.0	3
9	Titania Containing Cathodes for Lithium-Sulfur Batteries: Case Studies by Electrochemical Impedance Spectroscopy. ECS Transactions, 2021, 105, 169-176.	0.5	3
10	The TiO₂-Modified Separator Improving the Electrochemical Performance of Lithium-Sulfur Battery. ECS Transactions, 2021, 105, 183-189.	0.5	4
11	Chemical Vapor Deposition of MoS₂ for Energy Harvesting: Evolution of the Interfacial Oxide Layer. ACS Applied Nano Materials, 2020, 3, 6563-6573.	5.0	10
12	Selected Electrochemical Properties of 4,4â€™-((1E,1â€™E)-((1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(N,N-di-p-tolylaniline) towards Perovskite Solar Cells with 14.4% Efficiency. Materials, 2020, 13, 2440.	2.9	15
13	<scp> LiNi ₁ </scp> _/ <scp> ₃ Mn ₁ </scp> _/ <scp> ₃ Co ₁ </scp> _/ <scp> ₃ O ₂ </scp> with morphology optimized for n. International Journal of Energy Research, 2020, 44, 9082-9092.	4.5	1
14	Electron-Selective Layers for Dye-Sensitized Solar Cells Based on TiO₂ and SnO₂. Journal of Physical Chemistry C, 2020, 124, 6512-6521.	3.1	34
15	Photogenerated charge collection on diamond electrodes with covalently linked chromophore monolayers. Electrochimica Acta, 2020, 337, 135762.	5.2	7
16	Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. Journal of Power Sources, 2020, 458, 228067.	7.8	15
17	Nanocrystalline TiO₂ and Li₄Ti₅O₁₂ as Novel Inorganic Host Materials for Li-S Batteries. ECS Transactions, 2020, 99, 151-159.	0.5	2
18	Rutile TiO2 thin film electrodes with excellent blocking function and optical transparency. Electrochimica Acta, 2019, 321, 134685.	5.2	19

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19	Transparent rutile TiO2 films prepared by thermal oxidation of sputtered Ti on FTO glass. Photochemical and Photobiological Sciences, 2019, 18, 891-896.	2.9	8
20	Electrochemical Characterization of CuSCN Hole-Extracting Thin Films for Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 4264-4273.	5.1	20
21	Selectivity of Photoelectrochemical Water Splitting on TiO2 Anatase Single Crystals. Journal of Physical Chemistry C, 2019, 123, 10857-10867.	3.1	23
22	Electrochemical Performance of LiNixMnyCozO2 (NMC) Materials with Hollow Spheres Morphology. ECS Transactions, 2019, 95, 55-63.	0.5	1
23	Formation of Methane and (Per)Chlorates on Mars. ACS Earth and Space Chemistry, 2019, 3, 221-232.	2.7	24
24	Conduction band engineering in semiconducting oxides (TiO2, SnO2): Applications in perovskite photovoltaics and beyond. Catalysis Today, 2019, 328, 50-56.	4.4	43
25	Electron/Hole-Selective Interfaces in Perovskite Photovoltaics: Electrochemical Studies. ECS Meeting Abstracts, 2019, , .	0.0	0
26	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. Energy and Environmental Science, 2018, 11, 1779-1787.	30.8	148
27	Li insertion into Li4Ti5O12 spinel prepared by low temperature solid state route: Charge capability vs surface area. Electrochimica Acta, 2018, 265, 480-487.	5.2	18
28	Alternative bases to 4-tert-butylpyridine for dye-sensitized solar cells employing copper redox mediator. Electrochimica Acta, 2018, 265, 194-201.	5.2	38
29	Chemical modification of diamond surface by a donorâ€“acceptor organic chromophore (P1): Optimization of surface chemistry and electronic properties of diamond. Applied Materials Today, 2018, 12, 153-162.	4.3	11
30	Electrochemical performance of sol-gel-made Na2Ti3O7 anode material for Na-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2545-2552.	2.5	9
31	Comparative SIFT-MS, GCâ€“MS and FTIR analysis of methane fuel produced in biogas stations and in artificial photosynthesis over acidic anatase TiO2 and montmorillonite. Journal of Molecular Spectroscopy, 2018, 348, 152-160.	1.2	14
32	Precursor gas composition optimisation for large area boron doped nano-crystalline diamond growth by MW-LA-PECVD. Carbon, 2018, 128, 164-171.	10.3	26
33	Molecular Design of Efficient Organic Dâ€“Aâ€“â€“A Dye Featuring Triphenylamine as Donor Fragment for Application in Dyeâ€Sensitized Solar Cells. ChemSusChem, 2018, 11, 494-502.	6.8	45
34	Layered LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ (NMC) with Optimized Morphology for Li-Ion Batteries. ECS Transactions, 2018, 87, 67-75.	0.5	7
35	Electrochemistry and perovskite photovoltaics. Current Opinion in Electrochemistry, 2018, 11, 122-129.	4.8	19
36	Functionalization of boron-doped diamond with a pushâ€“pull chromophore <i>via</i> Sonogashira and CuAAC chemistry. RSC Advances, 2018, 8, 33276-33290.	3.6	13

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37	Semi-automatic spray pyrolysis deposition of thin, transparent, titania films as blocking layers for dye-sensitized and perovskite solar cells. Beilstein Journal of Nanotechnology, 2018, 9, 1135-1145.	2.8	12
38	Electrochemical characterization of porous boron-doped diamond prepared using SiO2 fiber template. Diamond and Related Materials, 2018, 87, 61-69.	3.9	36
39	Analysis of heavily boron-doped diamond Raman spectrum. Diamond and Related Materials, 2018, 88, 163-166.	3.9	52
40	Nanocrystalline Boron-Doped Diamond as a Corrosion-Resistant Anode for Water Oxidation via Si Photoelectrodes. ACS Applied Materials & Interfaces, 2018, 10, 29552-29564.	8.0	23
41	Electrochemical Properties of Cu(II/I)-Based Redox Mediators for Dye-Sensitized Solar Cells. Electrochimica Acta, 2017, 227, 194-202.	5.2	63
42	Insight into boron-doped diamond Raman spectra characteristic features. Carbon, 2017, 115, 279-284.	10.3	103
43	Fine tuning of optical transition energy of twisted bilayer graphene via interlayer distance modulation. Physical Review B, 2017, 95, .	3.2	12
44	Electrochemical Properties of Transparent Conducting Films of Tantalum-Doped Titanium Dioxide. Electrochimica Acta, 2017, 232, 44-53.	5.2	16
45	Synergetic Surface Sensitivity of Photoelectrochemical Water Oxidation on TiO₂ (Anatase) Electrodes. Journal of Physical Chemistry C, 2017, 121, 6024-6032.	3.1	18
46	Optically transparent composite diamond/Ti electrodes. Carbon, 2017, 119, 179-189.	10.3	18
47	Na insertion into nanocrystalline Li4Ti5O12 spinel: An electrochemical study. Electrochimica Acta, 2017, 245, 505-511.	5.2	10
48	Electrochemistry and dye-sensitized solar cells. Current Opinion in Electrochemistry, 2017, 2, 88-96.	4.8	91
49	Spontaneous oxygen isotope exchange between carbon dioxide and natural clays: Refined rate constants referenced to TiO2 (anatase/rutile). Applied Clay Science, 2017, 137, 6-10.	5.2	3
50	Fabrication of porous boron-doped diamond on SiO2 fiber templates. Carbon, 2017, 114, 457-464.	10.3	68
51	Ultrathin Buffer Layers of SnO₂ by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. Journal of Physical Chemistry C, 2017, 121, 342-350.	3.1	118
52	The origin of methane and biomolecules from a CO2 cycle on terrestrial planets. Nature Astronomy, 2017, 1, 721-726.	10.1	27
53	Novel highly active Pt/graphene catalyst for cathodes of Cu(II/I)-mediated dye-sensitized solar cells. Electrochimica Acta, 2017, 251, 167-175.	5.2	43
54	Very thin thermally stable TiO2 blocking layers with enhanced electron transfer for solar cells. Applied Materials Today, 2017, 9, 122-129.	4.3	13

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55	All-diamond functional surface micro-electrode arrays for brain-slice neural analysis. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1532347.	1.8	13
56	In situ Raman spectroelectrochemistry as a useful tool for detection of TiO2(anatase) impurities in TiO2(B) and TiO2(rutile). Monatshefte FÃ¼r Chemie, 2016, 147, 951-959.	1.8	24
57	n-Type phosphorus-doped nanocrystalline diamond: electrochemical and in situ Raman spectroelectrochemical study. RSC Advances, 2016, 6, 51387-51393.	3.6	12
58	Graphene under direct compression: Stress effects and interlayer coupling. Physica Status Solidi (B): Basic Research, 2016, 253, 2336-2341.	1.5	7
59	Stress and charge transfer in uniaxially strained CVD graphene. Physica Status Solidi (B): Basic Research, 2016, 253, 2355-2361.	1.5	12
60	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. Journal of the American Chemical Society, 2016, 138, 15087-15096.	13.7	239
61	Electrochemical properties of spinel Li4Ti5O12 nanoparticles prepared via a low-temperature solid route. Journal of Solid State Electrochemistry, 2016, 20, 2673-2683.	2.5	17
62	Efficiency and stability of spectral sensitization of boron-doped-diamond electrodes through covalent anchoring of a donorâ€“acceptor organic chromophore (P1). Physical Chemistry Chemical Physics, 2016, 18, 16444-16450.	2.8	21
63	Water splitting and the band edge positions of TiO2. Electrochimica Acta, 2016, 199, 27-34.	5.2	64
64	Low-temperature Fabrication of Highly-Efficient, Optically-Transparent (FTO-free) Graphene Cathode for Co-Mediated Dye-Sensitized Solar Cells with Acetonitrile-free Electrolyte Solution. Electrochimica Acta, 2016, 195, 34-42.	5.2	46
65	Photocatalytic transformation of CO2 to CH4 and CO on acidic surface of TiO2 anatase. Optical Materials, 2016, 56, 80-83.	3.6	18
66	Electron Kinetics in Dye Sensitized Solar Cells Employing Anatase with (101) and (001) Facets. Electrochimica Acta, 2015, 160, 296-305.	5.2	13
67	Oxygen Atom Exchange between Gaseous CO₂ and TiO₂ Nanoclusters. Journal of Physical Chemistry C, 2015, 119, 3605-3612.	3.1	18
68	Boron-doped Diamond Electrodes: Electrochemical, Atomic Force Microscopy and Raman Study towards Corrosion-modifications at Nanoscale. Electrochimica Acta, 2015, 179, 626-636.	5.2	35
69	Single Layer Molybdenum Disulfide under Direct Out-of-Plane Compression: Low-Stress Band-Gap Engineering. Nano Letters, 2015, 15, 3139-3146.	9.1	75
70	Electrochemical impedance spectroscopy of polycrystalline boron doped diamond layers with hydrogen and oxygen terminated surface. Diamond and Related Materials, 2015, 55, 70-76.	3.9	26
71	Visible-light sensitization of boron-doped nanocrystalline diamond through non-covalent surface modification. Physical Chemistry Chemical Physics, 2015, 17, 1165-1172.	2.8	22
72	Dye-sensitization of boron-doped diamond foam: champion photoelectrochemical performance of diamond electrodes under solar light illumination. RSC Advances, 2015, 5, 81069-81077.	3.6	25

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73	Strain Assessment in Graphene Through the Raman 2Dâ€² Mode. Journal of Physical Chemistry C, 2015, 119, 25651-25656.	3.1	38
74	Resolving the Controversy about the Band Alignment between Rutile and Anatase: The Role of OH^{â€“}/H⁺ Adsorption. Journal of Physical Chemistry C, 2015, 119, 21952-21958.	3.1	43
75	Doping of C₇₀ fullerene peapods with lithium vapor: Raman spectroscopic and Raman spectroelectrochemical studies. Nanotechnology, 2014, 25, 485706.	2.6	4
76	Optically Transparent FTO-Free Cathode for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 22343-22350.	8.0	18
77	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. Electrochimica Acta, 2014, 128, 349-359.	5.2	88
78	Capacitive contribution to Li-storage in TiO2 (B) and TiO2 (anatase). Journal of Power Sources, 2014, 246, 103-109.	7.8	86
79	Titania nanofiber photoanodes for dye-sensitized solar cells. Catalysis Today, 2014, 230, 234-239.	4.4	9
80	Solâ€“Gel Titanium Dioxide Blocking Layers for Dyeâ€Sensitized Solar Cells: Electrochemical Characterization. ChemPhysChem, 2014, 15, 1056-1061.	2.1	38
81	Synthesis of nanostructured TiO2 (anatase) and TiO2(B) in ionic liquids. Catalysis Today, 2014, 230, 85-90.	4.4	20
82	Progressive In Situ Reduction of Graphene Oxide Studied by Raman Spectroelectrochemistry: Implications for a Spontaneous Activation of LiFePO₄ (Olivine). Electroanalysis, 2014, 26, 57-61.	2.9	8
83	Electrochemical Characterization of TiO₂ Blocking Layers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16408-16418.	3.1	201
84	Interaction between graphene and copper substrate: The role of lattice orientation. Carbon, 2014, 68, 440-451.	10.3	180
85	Spontaneous and Photoinduced Conversion of CO₂ on TiO₂ Anatase (001)/(101) Surfaces. Journal of Physical Chemistry C, 2014, 118, 26845-26850.	3.1	18
86	Electrochemical Doping of Compact TiO₂ Thin Layers. Journal of Physical Chemistry C, 2014, 118, 25970-25977.	3.1	24
87	Room temperature spontaneous conversion of OCS to CO2 on the anatase TiO2 surface. Chemical Communications, 2014, 50, 7712-7715.	4.1	9
88	Diamond functionalization with light-harvesting molecular wires: improved surface coverage by optimized Suzuki cross-coupling conditions. RSC Advances, 2014, 4, 42044-42053.	3.6	21
89	Lithium insertion into TiO2 (anatase): electrochemistry, Raman spectroscopy, and isotope labeling. Journal of Solid State Electrochemistry, 2014, 18, 2297-2306.	2.5	51
90	Carbon isotope labelling in graphene research. Nanoscale, 2014, 6, 6363.	5.6	38

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91	EPR study of 17O-enriched titania nanopowders under UV irradiation. Catalysis Today, 2014, 230, 112-118.	4.4	30
92	Surface preparation of TiO2 anatase (101): Pitfalls and how to avoid them. Surface Science, 2014, 626, 61-67.	1.9	47
93	Nanofibrous TiO2 improving performance of mesoporous TiO2 electrode in dye-sensitized solar cell. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	12
94	ZnOâ€“ionic liquid hybrid films: electrochemical synthesis and application in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 10173.	10.3	27
95	Lithium Insertion into Titanium Dioxide (Anatase): A Raman Study with ^{16/18}O and ^{6/7}Li Isotope Labeling. Chemistry of Materials, 2013, 25, 3710-3717.	6.7	17
96	Metal free sensitizer and catalyst for dye sensitized solar cells. Energy and Environmental Science, 2013, 6, 3439.	30.8	365
97	Dense TiO₂ films grown by solâ€“gel dip coating on glass, F-doped SnO₂, and silicon substrates. Journal of Materials Research, 2013, 28, 385-393.	2.6	12
98	Conductivity of boron-doped polycrystalline diamond films: influence of specific boron defects. European Physical Journal B, 2013, 86, 1.	1.5	55
99	Application of graphene-based nanostructures in dye-sensitized solar cells. Physica Status Solidi (B): Basic Research, 2013, 250, 2643-2648.	1.5	26
100	Electrochemistry and in situ Raman spectroelectrochemistry of low and high quality boron doped diamond layers in aqueous electrolyte solution. Electrochimica Acta, 2013, 87, 518-525.	5.2	65
101	The application of high-resolution IR spectroscopy and isotope labeling for detailed investigation of TiO2/gas interface reactions. Optical Materials, 2013, 36, 159-162.	3.6	20
102	Exploiting Nanocarbons in Dye-Sensitized Solar Cells. Topics in Current Chemistry, 2013, 348, 53-93.	4.0	29
103	Raman spectroscopy investigation of defect occurrence in graphene grown on copper single crystals. Physica Status Solidi (B): Basic Research, 2013, 250, 2653-2658.	1.5	7
104	The Application of Electrospun Titania Nanofibers in Dye-sensitized Solar Cells. Chimia, 2013, 67, 149-154.	0.6	11
105	In situ Raman spectroelectrochemistry of graphene oxide. Physica Status Solidi (B): Basic Research, 2013, 250, 2662-2667.	1.5	26
106	Nanomaterials based on carbon and Ti(IV) oxides: some aspects of their electrochemistry. International Journal of Nanotechnology, 2012, 9, 652.	0.2	5
107	Raman spectroscopy of isotopically labeled twoâ€layer graphene. Physica Status Solidi (B): Basic Research, 2012, 249, 2500-2502.	1.5	3
108	Voltage enhancement in dye-sensitized solar cell using (001)-oriented anatase TiO2 nanosheets. Journal of Solid State Electrochemistry, 2012, 16, 2993-3001.	2.5	64

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109	Photochemistry and Gas-Phase FTIR Spectroscopy of Formic Acid Interaction with Anatase Ti¹⁸O₂ Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 11200-11205.	3.1	38
110	Effects of Heat Treatment on Raman Spectra of Twoâ€Layer ¹²C/¹³C Graphene. Chemistry - A European Journal, 2012, 18, 13877-13884.	3.3	34
111	On the Stability of Fullerene C₆₀in Aqueous Medium. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 737-742.	2.1	7
112	Optically Transparent Cathode for Co(III/II) Mediated Dye-Sensitized Solar Cells Based on Graphene Oxide. ACS Applied Materials & Interfaces, 2012, 4, 6999-7006.	8.0	111
113	Raman spectra of titanium dioxide (anatase, rutile) with identified oxygen isotopes (16, 17, 18). Physical Chemistry Chemical Physics, 2012, 14, 14567.	2.8	417
114	Electrochemistry of titanium dioxide: some aspects and highlights. Chemical Record, 2012, 12, 131-142.	5.8	118
115	Phonon and Structural Changes in Deformed Bernal Stacked Bilayer Graphene. Nano Letters, 2012, 12, 687-693.	9.1	65
116	Modeling Ruthenium-Dye-Sensitized TiO₂ Surfaces Exposing the (001) or (101) Faces: A First-Principles Investigation. Journal of Physical Chemistry C, 2012, 116, 18124-18131.	3.1	55
117	The control of graphene double-layer formation in copper-catalyzed chemical vapor deposition. Carbon, 2012, 50, 3682-3687.	10.3	120
118	Raman 2D-Band Splitting in Graphene: Theory and Experiment. ACS Nano, 2011, 5, 2231-2239.	14.6	271
119	Oxygen-Isotope Exchange between CO2 and Solid Ti18O2. Journal of Physical Chemistry C, 2011, 115, 11156-11162.	3.1	35
120	Oxygen-isotope labeled titania: Ti18O2. Physical Chemistry Chemical Physics, 2011, 13, 11583.	2.8	46
121	Graphene Nanoplatelets Outperforming Platinum as the Electrocatalyst in Co-Bipyridine-Mediated Dye-Sensitized Solar Cells. Nano Letters, 2011, 11, 5501-5506.	9.1	350
122	Raman Spectroscopy and in Situ Raman Spectroelectrochemistry of Bilayer¹²C/¹³C Graphene. Nano Letters, 2011, 11, 1957-1963.	9.1	104
123	Graphene Nanoplatelet Cathode for Co(III)/(II) Mediated Dye-Sensitized Solar Cells. ACS Nano, 2011, 5, 9171-9178.	14.6	258
124	Optically Transparent Cathode for Dye-Sensitized Solar Cells Based on Graphene Nanoplatelets. ACS Nano, 2011, 5, 165-172.	14.6	500
125	Spectroelectrochemistry of Carbon Nanotubes. ChemPhysChem, 2011, 12, 47-55.	2.1	32
126	Probing Charge Transfer between Shells of Doubleâ€Walled Carbon Nanotubes Sorted by Outerâ€Wall Electronic Type. Chemistry - A European Journal, 2011, 17, 9806-9815.	3.3	26

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127	Defects in Individual Semiconducting Single Wall Carbon Nanotubes: Raman Spectroscopic and in Situ Raman Spectroelectrochemical Study. Nano Letters, 2010, 10, 4619-4626.	9.1	79
128	Sexithiophene Encapsulated in a Singleâ€Walled Carbon Nanotube: An In Situ Raman Spectroelectrochemical Study of a Peapod Structure. Chemistry - A European Journal, 2010, 16, 11753-11759.	3.3	39
129	Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO2 (anatase) and phosphate olivines (LiMnPO4; LiFePO4) for electrochemical Li-storage. Journal of Power Sources, 2010, 195, 5360-5369.	7.8	68
130	The influence of doping on the Raman intensity of the D band in single walled carbon nanotubes. Carbon, 2010, 48, 832-838.	10.3	31
131	Evaluation of defect concentration in doped SWCNT. Physica Status Solidi (B): Basic Research, 2010, 247, 2797-2800.	1.5	4
132	Nanobubble-assisted formation of carbon nanostructures on basal plane highly ordered pyrolytic graphite exposed to aqueous media. Nanotechnology, 2010, 21, 095707.	2.6	29
133	Organized Mesoporous TiO[sub 2] Films Stabilized by Phosphorus: Application for Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2010, 157, H99.	2.9	26
134	Search for the form of fullerene C60 in aqueous medium. Physical Chemistry Chemical Physics, 2010, 12, 14095.	2.8	31
135	Facile Conversion of Electrospun TiO₂ into Titanium Nitride/Oxynitride Fibers. Chemistry of Materials, 2010, 22, 4045-4055.	6.7	104
136	Polycrystalline TiO[sub 2] Anatase with a Large Proportion of Crystal Facets (001): Lithium Insertion Electrochemistry. Journal of the Electrochemical Society, 2010, 157, A1108.	2.9	49
137	An Anomalous Enhancement of the Ag(2) Mode in the Resonance Raman Spectra of C60 Embedded in Single-Walled Carbon Nanotubes during Anodic Charging. Journal of Physical Chemistry C, 2010, 114, 2505-2511.	3.1	10
138	Tuning of Sorted Double-Walled Carbon Nanotubes by Electrochemical Charging. ACS Nano, 2010, 4, 459-469.	14.6	34
139	The Influence of Strong Electron and Hole Doping on the Raman Intensity of Chemical Vapor-Deposition Graphene. ACS Nano, 2010, 4, 6055-6063.	14.6	243
140	Electrochemical Properties of the Supramolecular Assembly of Ruthenium(II)-bipyridine Complex with Single-Walled Carbon Nanotubes. Journal of the Electrochemical Society, 2009, 156, K44.	2.9	6
141	Carbon Nanotube Electrodes for Hotâ€Wire Electrochemistry. ChemPhysChem, 2009, 10, 559-563.	2.1	13
142	The reaction of lithium metal vapor with single walled carbon nanotubes of large diameters. Physica Status Solidi (B): Basic Research, 2009, 246, 2428-2431.	1.5	2
143	Photoluminescence of nanoporous silicon grains in TiO₂ matrices. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1713-1716.	0.8	1
144	Controlled doping of double walled carbon nanotubes and conducting polymers in a composite: An in situ Raman spectroelectrochemical study. Composites Science and Technology, 2009, 69, 1553-1557.	7.8	16

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145	Molecular wiring of LiMnPO4 (olivine) by ruthenium(II)-bipyridine complexes. Electrochemistry Communications, 2009, 11, 2137-2140.	4.7	2
146	Supramolecular Assembly of Single-Walled Carbon Nanotubes with a Ruthenium(II)â^’Bipyridine Complex: An in Situ Raman Spectroelectrochemical Study. Journal of Physical Chemistry C, 2009, 113, 2611-2617.	3.1	8
147	An in situ Raman spectroelectrochemical study of the controlled doping of semiconducting single walled carbon nanotubes in a conducting polymer matrix. Synthetic Metals, 2009, 159, 2245-2248.	3.9	15
148	Selective Etching of Thin Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 4529-4534.	13.7	18
149	Electrochemical Charging of Individual Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 2320-2328.	14.6	51
150	Influence of the Resonant Electronic Transition on the Intensity of the Raman Radial Breathing Mode of Single Walled Carbon Nanotubes during Electrochemical Charging. Journal of Physical Chemistry C, 2009, 113, 16408-16413.	3.1	19
151	Large Variety of Behaviors for the Raman Gâ€² Mode of Single Walled Carbon Nanotubes upon Electrochemical Gating Arising from Different (<i>n</i>,<i>m</i>) of Individual Nanotubes. Journal of Physical Chemistry C, 2009, 113, 1751-1757.	3.1	14
152	In situ Raman spectroelectrochemistry of SWCNT bundles: Development of the tangential mode during electrochemical charging in different electrolyte solutions. Diamond and Related Materials, 2009, 18, 972-974.	3.9	9
153	Effect of Bundling on the Tangential Displacement Mode in the Raman Spectra of Semiconducting Single-Walled Carbon Nanotubes during Electrochemical Charging. Journal of Physical Chemistry C, 2009, 113, 1340-1345.	3.1	17
154	Novel Synthesis of the TiO2(B) Multilayer Templated Films. Chemistry of Materials, 2009, 21, 1457-1464.	6.7	69
155	Rotating Cell for in Situ Raman Spectroelectrochemical Studies of Photosensitive Redox Systems. Analytical Chemistry, 2009, 81, 2017-2021.	6.5	12
156	Self-Assemblies of Cationic Porphyrins with Functionalized Water-Soluble Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2009, 9, 5795-5802.	0.9	8
157	In situ optical spectroelectrochemistry of single-walled carbon nanotube thin films. Journal of Solid State Electrochemistry, 2008, 12, 1279-1284.	2.5	10
158	Inâ€¢situ Vis/NIR spectroelectrochemistry of singleâ€¢walled carbon nanotubes enriched with (6,5) tubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2239-2242.	1.5	7
159	Doping of C₆₀ Fullerene Peapods with Lithium Vapor: Raman Spectroscopic and Spectroelectrochemical Studies. Chemistry - A European Journal, 2008, 14, 6231-6236.	3.3	6
160	Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. Advanced Functional Materials, 2008, 18, 145-150.	14.9	158
161	Structural parameters controlling the performance of organized mesoporous TiO2 films in dye sensitized solar cells. Inorganica Chimica Acta, 2008, 361, 656-662.	2.4	52
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