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	Electrochemical and Photoelectrochemical Investigation of Single-Crystal Anatase. Journal of the American Chemical Society, 1996, 118, 6716-6723.	13.7	1,312
2	Organized Mesoporous TiO2 Films Exhibiting Greatly Enhanced Performance in Dye-Sensitized Solar Cells. Nano Letters, 2005, 5, 1789-1792.	9.1	520
3	Optically Transparent Cathode for Dye-Sensitized Solar Cells Based on Graphene Nanoplatelets. ACS Nano, 2011, 5, 165-172.	14.6	500
4	Pseudocapacitive Lithium Storage in TiO2(B). Chemistry of Materials, 2005, 17, 1248-1255.	6.7	467
5	Rocking Chair Lithium Battery Based on Nanocrystalline TiO2 (Anatase). Journal of the Electrochemical Society, 1995, 142, L142-L144.	2.9	430
6	Raman spectra of titanium dioxide (anatase, rutile) with identified oxygen isotopes (16, 17, 18). Physical Chemistry Chemical Physics, 2012, 14, 14567.	2.8	417
7	Highly efficient semiconducting TiO2 photoelectrodes prepared by aerosol pyrolysis. Electrochimica Acta, 1995, 40, 643-652.	5.2	413
8	Lithium Storage in Nanostructured TiO2 Made by Hydrothermal Growth. Chemistry of Materials, 2004, 16, 477-485.	6.7	406
9	Highly efficient sensitization of titanium dioxide. Journal of the American Chemical Society, 1985, 107, 2988-2990.	13.7	392
10	Nanocrystalline TiO2 (Anatase) Electrodes: Surface Morphology, Adsorption, and Electrochemical Properties. Journal of the Electrochemical Society, 1996, 143, 394-400.	2.9	371
11	Metal free sensitizer and catalyst for dye sensitized solar cells. Energy and Environmental Science, 2013, 6, 3439.	30.8	365
12	Graphene Nanoplatelets Outperforming Platinum as the Electrocatalyst in Co-Bipyridine-Mediated Dye-Sensitized Solar Cells. Nano Letters, 2011, 11, 5501-5506.	9.1	350
13	Preparation of TiO2 (anatase) films on electrodes by anodic oxidative hydrolysis of TiCl3. Journal of Electroanalytical Chemistry, 1993, 346, 291-307.	3.8	283
14	Raman 2D-Band Splitting in Graphene: Theory and Experiment. ACS Nano, 2011, 5, 2231-2239.	14.6	271
15	Li Insertion into Li[sub 4]Ti[sub 5]O[sub 12] (Spinel). Journal of the Electrochemical Society, 2003, 150, A1000.	2.9	269
16	Graphene Nanoplatelet Cathode for Co(III)/(II) Mediated Dye-Sensitized Solar Cells. ACS Nano, 2011, 5, 9171-9178.	14.6	258
17	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
18	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

#	Article	IF	Citations
19	Orientation Dependence of Charge-Transfer Processes on TiO[sub 2] (Anatase) Single Crystals. Journal of the Electrochemical Society, 2000, 147, 1467.	2.9	224
20	Electrochemical Tuning of Electronic Structure of Single-Walled Carbon Nanotubes: In-situ Raman and Vis-NIR Study. Journal of Physical Chemistry B, 2001, 105, 10764-10771.	2.6	224
21	Surfactant-Templated TiO2 (Anatase):â€‰ Characteristic Features of Lithium Insertion Electrochemistry in Organized Nanostructures. Journal of Physical Chemistry B, 2000, 104, 12012-12020.	2.6	222
22	Facile Synthesis of Nanocrystalline Li[sub 4]Ti[sub 5]O[sub 12] (Spinel) Exhibiting Fast Li Insertion. Electrochemical and Solid-State Letters, 2002, 5, A39.	2.2	214
23	Study of nanocrystalline TiO2 (anatase) electrode in the accumulation regime. Journal of Electroanalytical Chemistry, 1995, 394, 93-102.	3.8	203
24	Electrochemical Characterization of TiO₂ Blocking Layers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16408-16418.	3.1	201
25	Interaction between graphene and copper substrate: The role of lattice orientation. Carbon, 2014, 68, 440-451.	10.3	180
26	Quantum size effects in nanocrystalline semiconducting titania layers prepared by anodic oxidative hydrolysis of titanium trichloride. The Journal of Physical Chemistry, 1993, 97, 9493-9498.	2.9	172
27	Electrochemical Carbon. Chemical Reviews, 1997, 97, 3061-3082.	47.7	167
28	Spectroelectrochemistry of Carbon Nanostructures. ChemPhysChem, 2007, 8, 974-998.	2.1	158
29	Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. Advanced Functional Materials, 2008, 18, 145-150.	14.9	158
30	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
31	Reductive Preparation of Carbyne with High Yield. An in Situ Raman Scattering Study. Macromolecules, 1995, 28, 344-353.	4.8	134
32	The control of graphene double-layer formation in copper-catalyzed chemical vapor deposition. Carbon, 2012, 50, 3682-3687.	10.3	120
33	Electrochemistry of titanium dioxide: some aspects and highlights. Chemical Record, 2012, 12, 131-142.	5.8	118
34	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
35	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
36	In situ Raman and Vis-NIR spectroelectrochemistry at single-walled carbon nanotubes. Chemical Physics Letters, 2000, 328, 363-368.	2.6	105

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37	Facile Conversion of Electrospun TiO₂ into Titanium Nitride/Oxynitride Fibers. Chemistry of Materials, 2010, 22, 4045-4055.	6.7	104
38	Raman Spectroscopy and in Situ Raman Spectroelectrochemistry of Bilayer¹²C/¹³C Graphene. Nano Letters, 2011, 11, 1957-1963.	9.1	104
39	Lithium Insertion into Mesoscopic and Singleâ€Crystal TiO2 (Rutile) Electrodes. Journal of the Electrochemical Society, 1999, 146, 1375-1379.	2.9	103
40	Insight into boron-doped diamond Raman spectra characteristic features. Carbon, 2017, 115, 279-284.	10.3	103
41	Mesoporous thin film TiO2 electrodes. Microporous and Mesoporous Materials, 2001, 44-45, 653-659.	4.4	102
42	Probing high-pressure properties of single-wall carbon nanotubes through fullerene encapsulation. Physical Review B, 2008, 77, .	3.2	93
43	Electrochemistry and dye-sensitized solar cells. Current Opinion in Electrochemistry, 2017, 2, 88-96.	4.8	91
44	Charge transfer reductive doping of single crystal TiO2 anatase. Journal of Electroanalytical Chemistry, 2004, 566, 73-83.	3.8	90
45	Novel 2 V rocking-chair lithium battery based on nano-crystalline titanium dioxide. Journal of Power Sources, 1997, 68, 720-722.	7.8	88
46	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. Electrochimica Acta, 2014, 128, 349-359.	5.2	88
47	Capacitive contribution to Li-storage in TiO2 (B) and TiO2 (anatase). Journal of Power Sources, 2014, 246, 103-109.	7.8	86
48	Lithium Insertion into Zirconia-Stabilized Mesoscopic TiO[sub 2] (Anatase). Journal of the Electrochemical Society, 2000, 147, 2897.	2.9	82
49	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
50	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
51	Carbyne forms of carbon: continuation of the story. Carbon, 1994, 32, 1533-1536.	10.3	75
52	Electrochemical Tuning of Electronic Structure of C60 and C70 Fullerene Peapods:â€‰ In Situ Visible Near-Infrared and Raman Study. Journal of Physical Chemistry B, 2003, 107, 7666-7675.	2.6	75
53	Single Layer Molybdenum Disulfide under Direct Out-of-Plane Compression: Low-Stress Band-Gap Engineering. Nano Letters, 2015, 15, 3139-3146.	9.1	75
54	Electrochemical carbyne from perfluorinated hydrocarbons: Synthesis and stability studied by Raman scattering. Carbon, 1995, 33, 1321-1329.	10.3	74

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55	Novel Synthesis of the TiO2(B) Multilayer Templated Films. Chemistry of Materials, 2009, 21, 1457-1464.	6.7	69
56	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
57	Fabrication of porous boron-doped diamond on SiO2 fiber templates. Carbon, 2017, 114, 457-464.	10.3	68
58	Lithium Insertion into Anatase Inverse Opal. Journal of the Electrochemical Society, 2004, 151, A1301.	2.9	65
59	Phonon and Structural Changes in Deformed Bernal Stacked Bilayer Graphene. Nano Letters, 2012, 12, 687-693.	9.1	65
60	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
61	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
62	Water splitting and the band edge positions of TiO2. Electrochimica Acta, 2016, 199, 27-34.	5.2	64
63	Electrochemical Properties of Cu(II/I)-Based Redox Mediators for Dye-Sensitized Solar Cells. Electrochimica Acta, 2017, 227, 194-202.	5.2	63
64	Ionic Liquid for in situ Vis/NIR and Raman Spectroelectrochemistry: Doping of Carbon Nanostructures. ChemPhysChem, 2003, 4, 944-950.	2.1	62
65	In situ Visâ€“NIR and Raman spectroelectrochemistry at fullerene peapods. Chemical Physics Letters, 2002, 361, 79-85.	2.6	61
66	Electrochemical tuning of electronic structure of carbon nanotubes and fullerene peapods. Carbon, 2004, 42, 1011-1019.	10.3	61
67	Development of the Tangential Mode in the Raman Spectra of SWCNT Bundles during Electrochemical Charging. Nano Letters, 2008, 8, 1257-1264.	9.1	60
68	Multilayer Films from Templated TiO₂ and Structural Changes during their Thermal Treatment. Chemistry of Materials, 2008, 20, 2985-2993.	6.7	59
69	Electrochemical Doping of Chirality-Resolved Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 19613-19619.	2.6	57
70	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
71	Conductivity of boron-doped polycrystalline diamond films: influence of specific boron defects. European Physical Journal B, 2013, 86, 1.	1.5	55
72	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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73	Analysis of heavily boron-doped diamond Raman spectrum. Diamond and Related Materials, 2018, 88, 163-166.	3.9	52
74	Electrochemical Charging of Individual Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 2320-2328.	14.6	51
75	Lithium insertion into TiO2 (anatase): electrochemistry, Raman spectroscopy, and isotope labeling. Journal of Solid State Electrochemistry, 2014, 18, 2297-2306.	2.5	51
76	Oxidation of Acetonitrileâ€Based Electrolyte Solutions at High Potentials: An In Situ Fourier Transform Infrared Spectroscopy Study. Journal of the Electrochemical Society, 1993, 140, 3390-3395.	2.9	50
77	Diameter-Selective Electrochemical Doping of HiPco Single-Walled Carbon Nanotubes. Nano Letters, 2003, 3, 969-972.	9.1	49
78	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
79	Two Positions of Potassium in Chemically Doped C60Peapods:Â An in situ Spectroelectrochemical Study. Journal of Physical Chemistry B, 2004, 108, 6275-6280.	2.6	48
80	Surface preparation of TiO2 anatase (101): Pitfalls and how to avoid them. Surface Science, 2014, 626, 61-67.	1.9	47
81	Nafion modified TiO2 electrodes: photoresponse and sensitization by Ru(II)-bipyridyl complexes. Electrochimica Acta, 1989, 34, 1327-1334.	5.2	46
82	Phase-pure nanocrystalline Li 4 Ti 5 O 12 for a lithium-ion battery. Journal of Solid State Electrochemistry, 2003, 8, 2-6.	2.5	46
83	Oxygen-isotope labeled titania: Ti18O2. Physical Chemistry Chemical Physics, 2011, 13, 11583.	2.8	46
84	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
85	In-Situ Vis-Near-Infrared and Raman Spectroelectrochemistry of Double-Walled Carbon Nanotubes. Advanced Functional Materials, 2005, 15, 418-426.	14.9	45
86	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
87	Cold gas dynamic spraying (CGDS) of TiO2 (anatase) powders onto poly(sulfone) substrates: Microstructural characterisation and photocatalytic efficiency. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 187, 285-292.	3.9	44
88	Competition between the Spring Force Constant and the Phonon Energy Renormalization in Electrochemically Doped Semiconducting Single-Walled Carbon Nanotubes. Nano Letters, 2008, 8, 3532-3537.	9.1	43
89	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
90	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

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91	Conduction band engineering in semiconducting oxides (TiO2, SnO2): Applications in perovskite photovoltaics and beyond. Catalysis Today, 2019, 328, 50-56.	4.4	43
92	Electrochemical tuning of high energy phonon branches of double wall carbon nanotubes. Carbon, 2004, 42, 2915-2920.	10.3	41
93	Interaction of nanodiamond with in situ generated sp-carbon chains probed by Raman spectroscopy. Carbon, 2006, 44, 3113-3116.	10.3	39
94	Enhancement of Electrochemical Activity of LiFePO₄ (olivine) by Amphiphilic Ru-bipyridine Complex Anchored to a Carbon Nanotube. Chemistry of Materials, 2007, 19, 4716-4721.	6.7	39
95	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
96	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
97	Solâ€“Gel Titanium Dioxide Blocking Layers for Dyeâ€Sensitized Solar Cells: Electrochemical Characterization. ChemPhysChem, 2014, 15, 1056-1061.	2.1	38
98	Carbon isotope labelling in graphene research. Nanoscale, 2014, 6, 6363.	5.6	38
99	Strain Assessment in Graphene Through the Raman 2Dâ€² Mode. Journal of Physical Chemistry C, 2015, 119, 25651-25656.	3.1	38
100	Alternative bases to 4-tert-butylpyridine for dye-sensitized solar cells employing copper redox mediator. Electrochimica Acta, 2018, 265, 194-201.	5.2	38
101	Charge transfer between two immiscible electrolyte solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 145, 213-218.	0.1	37
102	Lithium insertion into titanium dioxide (anatase) electrodes: microstructure and electrolyte effects. Journal of Solid State Electrochemistry, 2001, 5, 196-204.	2.5	37
103	Time-dependent electrical resistivity of carbon. The Journal of Physical Chemistry, 1990, 94, 5127-5134.	2.9	36
104	Mesoporous electrode material from alumina-stabilized anatase TiO2 for lithium ion batteries. Journal of Solid State Electrochemistry, 2005, 9, 138-145.	2.5	36
105	Electrochemical characterization of porous boron-doped diamond prepared using SiO2 fiber template. Diamond and Related Materials, 2018, 87, 61-69.	3.9	36
106	An in situ Raman spectroelectrochemical study of the controlled doping of single walled carbon nanotubes in a conducting polymer matrix. Carbon, 2007, 45, 1463-1470.	10.3	35
107	Oxygen-Isotope Exchange between CO2 and Solid Ti18O2. Journal of Physical Chemistry C, 2011, 115, 11156-11162.	3.1	35
108	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

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109	Tuning of Sorted Double-Walled Carbon Nanotubes by Electrochemical Charging. ACS Nano, 2010, 4, 459-469.	14.6	34
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	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
112	Perfluoro anion-exchange polymeric films on glassy carbon electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 280, 313-325.	0.1	32
113	Carbonaceous materials from end-capped alkynes. Carbon, 2002, 40, 345-349.	10.3	32
114	Spectroelectrochemistry of Carbon Nanotubes. ChemPhysChem, 2011, 12, 47-55.	2.1	32
115	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
116	Search for the form of fullerene C60 in aqueous medium. Physical Chemistry Chemical Physics, 2010, 12, 14095.	2.8	31
117	Electrochemical Doping of Double-Walled Carbon Nanotubes: An In Situ Raman Spectroelectrochemical Study. ChemPhysChem, 2004, 5, 274-277.	2.1	30
118	Chemical States of Electrochemically Doped Single Wall Carbon Nanotubes As Probed by Raman Spectroelectrochemistry and ex Situ X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 13856-13861.	3.1	30
119	EPR study of 17O-enriched titania nanopowders under UV irradiation. Catalysis Today, 2014, 230, 112-118.	4.4	30
120	Electrochemical, IR and XPS study of Nafion films prepared from hexamethylphosphortriamide solution. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 199, 81-92.	0.1	29
121	On the stability of polyyne. Chemical Physics, 1992, 168, 249-258.	1.9	29
122	Polymerisation of 1-iodohexa-1,3,5-triyne and hexa-1,3,5-triyne: a new synthesis of carbon nanotubes at low temperatures. Chemical Communications, 2000, , 737-738.	4.1	29
123	Nanobubble-assisted formation of carbon nanostructures on basal plane highly ordered pyrolytic graphite exposed to aqueous media. Nanotechnology, 2010, 21, 095707.	2.6	29
124	Exploiting Nanocarbons in Dye-Sensitized Solar Cells. Topics in Current Chemistry, 2013, 348, 53-93.	4.0	29
125	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
126	The origin of methane and biomolecules from a CO2 cycle on terrestrial planets. Nature Astronomy, 2017, 1, 721-726.	10.1	27

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127	XPS study of carbon in electrochemical reduction products of poly(tetrafluoroethylene). Carbon, 1984, 22, 77-81.	10.3	26
128	Influence of an Extended Fullerene Cage:â€‰ Study of Chemical and Electrochemical Doping of C70 Peapods by in Situ Raman Spectroelectrochemistry. Journal of Physical Chemistry C, 2007, 111, 1079-1085.	3.1	26
129	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
130	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
131	Application of graphene-based nanostructures in dye-sensitized solar cells. Physica Status Solidi (B): Basic Research, 2013, 250, 2643-2648.	1.5	26
132	In situ Raman spectroelectrochemistry of graphene oxide. Physica Status Solidi (B): Basic Research, 2013, 250, 2662-2667.	1.5	26
133	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
134	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
135	The Intermediate Frequency Modes of Single- and Double-Walled Carbon Nanotubes: A Raman Spectroscopic and In Situ Raman Spectroelectrochemical Study. Chemistry - A European Journal, 2006, 12, 4451-4457.	3.3	25
136	Changes in the Electronic States of Single-Walled Carbon Nanotubes as Followed by a Raman Spectroelectrochemical Analysis of the Radial Breathing Mode. Journal of Physical Chemistry C, 2008, 112, 16759-16763.	3.1	25
137	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
138	The role of ion transport in the electrochemical corrosion of fluoropolymers. Preparation and properties of n-doped polymeric carbon with mixed ion/electron conductivity. Solid State Ionics, 1990, 38, 109-118.	2.7	24
139	Electrochemical Doping of Compact TiO₂ Thin Layers. Journal of Physical Chemistry C, 2014, 118, 25970-25977.	3.1	24
140	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
141	Formation of Methane and (Per)Chlorates on Mars. ACS Earth and Space Chemistry, 2019, 3, 221-232.	2.7	24
142	Carbynoid species in electrochemical polymeric carbon. Synthetic Metals, 1993, 58, 63-72.	3.9	23
143	Anodic oxidation of dimethyl sulfoxide based electrolyte solutions: Anin situ FTIR study. Journal of Applied Electrochemistry, 1996, 26, 523-527.	2.9	23
144	Carbonization of Highly Oriented Poly(tetrafluoroethylene). Chemistry of Materials, 1999, 11, 329-335.	6.7	23

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145	Transformation of fullerene peapods to double-walled carbon nanotubes induced by UV radiation. Carbon, 2005, 43, 1610-1616.	10.3	23
146	In situ EPR spectroelectrochemistry of single-walled carbon nanotubes and C60 fullerene peapods. Carbon, 2006, 44, 2147-2154.	10.3	23
147	The Change of the State of an Endohedral Fullerene by Encapsulation into SWCNT: A Raman Spectroelectrochemical Study of Dy₃N@C₈₀ Peapods. Chemistry - A European Journal, 2007, 13, 8811-8817.	3.3	23
148	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
149	Selectivity of Photoelectrochemical Water Splitting on TiO2 Anatase Single Crystals. Journal of Physical Chemistry C, 2019, 123, 10857-10867.	3.1	23
150	Electrochemical preparation of hydrogen free carbyne-like materials. Carbon, 1998, 36, 801-808.	10.3	22
151	In Situ Raman Spectroelectrochemistry of Single-Walled Carbon Nanotubes: Investigation of Materials Enriched with (6,5) Tubes. Journal of Physical Chemistry C, 2008, 112, 14179-14187.	3.1	22
152	Visible-light sensitization of boron-doped nanocrystalline diamond through non-covalent surface modification. Physical Chemistry Chemical Physics, 2015, 17, 1165-1172.	2.8	22
153	In-situ FTIR study of anodic photoreactions at the n-TiO2, (anatase) electrode in aprotic electrolyte solutions. Journal of Electroanalytical Chemistry, 1994, 373, 123-131.	3.8	21
154	Carbon nanostructures from perfluorinated hydrocarbons. Carbon, 1999, 37, 1863-1865.	10.3	21
155	Electrochemical and gas-phase photocatalytic performance of nanostructured TiO2(B) prepared by novel synthetic route. Progress in Solid State Chemistry, 2005, 33, 253-261.	7.2	21
156	Electrochemical and chemical redox doping of fullerene (C60) peapods. Carbon, 2006, 44, 99-106.	10.3	21
157	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
158	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
159	Reaction of hexafluorobenzene and tetradecafluorohexane with lithium amalgam. Journal of Fluorine Chemistry, 1988, 41, 383-391.	1.7	20
160	Insertion of lithium into mesoscopic anatase electrodes - an electrochemical and in-situ EQCM study. Journal of Solid State Electrochemistry, 1997, 1, 83-87.	2.5	20
161	Electrochemistry of Carbon Nanotubes. Topics in Applied Physics, 2007, , 567-604.	0.8	20
162	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

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163	Synthesis of nanostructured TiO2 (anatase) and TiO2(B) in ionic liquids. Catalysis Today, 2014, 230, 85-90.	4.4	20
164	Electrochemical Characterization of CuSCN Hole-Extracting Thin Films for Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 4264-4273.	5.1	20
165	The preparation of polymeric carbon from PTFE in the suspension of alkali metals. Carbon, 1999, 37, 1029-1032.	10.3	19
166	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
167	Electrochemistry and perovskite photovoltaics. Current Opinion in Electrochemistry, 2018, 11, 122-129.	4.8	19
168	Rutile TiO2 thin film electrodes with excellent blocking function and optical transparency. Electrochimica Acta, 2019, 321, 134685.	5.2	19
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