Ladislav Kavan

List of Publications by Year
in descending order

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325	17,534	19608 61	17055 122
papers	citations	h-index	g-index

349	349	349	17172
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical and Photoelectrochemical Investigation of Single-Crystal Anatase. Journal of the American Chemical Society, 1996, 118, 6716-6723.	6.6	1,312
2	Organized Mesoporous TiO2 Films Exhibiting Greatly Enhanced Performance in Dye-Sensitized Solar Cells. Nano Letters, 2005, 5, 1789-1792.	4.5	520
3	Optically Transparent Cathode for Dye-Sensitized Solar Cells Based on Graphene Nanoplatelets. ACS Nano, 2011, 5, 165-172.	7.3	500
4	Pseudocapacitive Lithium Storage in TiO2(B). Chemistry of Materials, 2005, 17, 1248-1255.	3.2	467
5	Rocking Chair Lithium Battery Based on Nanocrystalline TiO2 (Anatase). Journal of the Electrochemical Society, 1995, 142, L142-L144.	1.3	430
6	Raman spectra of titanium dioxide (anatase, rutile) with identified oxygen isotopes (16, 17, 18). Physical Chemistry Chemical Physics, 2012, 14, 14567.	1.3	417
7	Highly efficient semiconducting TiO2 photoelectrodes prepared by aerosol pyrolysis. Electrochimica Acta, 1995, 40, 643-652.	2.6	413
8	Lithium Storage in Nanostructured TiO2 Made by Hydrothermal Growth. Chemistry of Materials, 2004, 16, 477-485.	3.2	406
9	Highly efficient sensitization of titanium dioxide. Journal of the American Chemical Society, 1985, 107, 2988-2990.	6.6	392
10	Nanocrystalline TiO2 (Anatase) Electrodes: Surface Morphology, Adsorption, and Electrochemical Properties. Journal of the Electrochemical Society, 1996, 143, 394-400.	1.3	371
11	Metal free sensitizer and catalyst for dye sensitized solar cells. Energy and Environmental Science, 2013, 6, 3439.	15.6	365
12	Graphene Nanoplatelets Outperforming Platinum as the Electrocatalyst in Co-Bipyridine-Mediated Dye-Sensitized Solar Cells. Nano Letters, 2011, 11, 5501-5506.	4.5	350
13	Preparation of TiO2 (anatase) films on electrodes by anodic oxidative hydrolysis of TiCl3. Journal of Electroanalytical Chemistry, 1993, 346, 291-307.	1.9	283
14	Raman 2D-Band Splitting in Graphene: Theory and Experiment. ACS Nano, 2011, 5, 2231-2239.	7.3	271
15	Li Insertion into Li[sub 4]Ti[sub 5]O[sub 12] (Spinel). Journal of the Electrochemical Society, 2003, 150, A1000.	1.3	269
16	Graphene Nanoplatelet Cathode for Co(III)/(II) Mediated Dye-Sensitized Solar Cells. ACS Nano, 2011, 5, 9171-9178.	7.3	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.	7.3	243
18	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. Journal of the American Chemical Society, 2016, 138, 15087-15096.	6.6	239

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19	Orientation Dependence of Charge-Transfer Processes on TiO[sub 2] (Anatase) Single Crystals. Journal of the Electrochemical Society, 2000, 147, 1467.	1.3	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.	1.2	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.	1.2	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.	1.9	203
24	Electrochemical Characterization of TiO₂ Blocking Layers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16408-16418.	1.5	201
25	Interaction between graphene and copper substrate: The role of lattice orientation. Carbon, 2014, 68, 440-451.	5.4	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.	23.0	167
28	Spectroelectrochemistry of Carbon Nanostructures. ChemPhysChem, 2007, 8, 974-998.	1.0	158
29	Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. Advanced Functional Materials, 2008, 18, 145-150.	7.8	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.	15.6	148
31	Reductive Preparation of Carbyne with High Yield. An in Situ Raman Scattering Study. Macromolecules, 1995, 28, 344-353.	2.2	134
32	The control of graphene double-layer formation in copper-catalyzed chemical vapor deposition. Carbon, 2012, 50, 3682-3687.	5.4	120
33	Electrochemistry of titanium dioxide: some aspects and highlights. Chemical Record, 2012, 12, 131-142.	2.9	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.	1.5	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.	4.0	111
36	In situ Raman and Vis-NIR spectroelectrochemistry at single-walled carbon nanotubes. Chemical Physics Letters, 2000, 328, 363-368.	1.2	105

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37	Facile Conversion of Electrospun TiO₂ into Titanium Nitride/Oxynitride Fibers. Chemistry of Materials, 2010, 22, 4045-4055.	3.2	104
38	Raman Spectroscopy and in Situ Raman Spectroelectrochemistry of Bilayer¹²C/¹³C Graphene. Nano Letters, 2011, 11, 1957-1963.	4.5	104
39	Lithium Insertion into Mesoscopic and Singleâ€Crystal TiO2 (Rutile) Electrodes. Journal of the Electrochemical Society, 1999, 146, 1375-1379.	1.3	103
40	Insight into boron-doped diamond Raman spectra characteristic features. Carbon, 2017, 115, 279-284.	5.4	103
41	Mesoporous thin film TiO2 electrodes. Microporous and Mesoporous Materials, 2001, 44-45, 653-659.	2.2	102
42	Probing high-pressure properties of single-wall carbon nanotubes through fullerene encapsulation. Physical Review B, 2008, 77, .	1.1	93
43	Electrochemistry and dye-sensitized solar cells. Current Opinion in Electrochemistry, 2017, 2, 88-96.	2.5	91
44	Charge transfer reductive doping of single crystal TiO2 anatase. Journal of Electroanalytical Chemistry, 2004, 566, 73-83.	1.9	90
45	Novel 2 V rocking-chair lithium battery based on nano-crystalline titanium dioxide. Journal of Power Sources, 1997, 68, 720-722.	4.0	88
46	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. Electrochimica Acta, 2014, 128, 349-359.	2.6	88
47	Capacitive contribution to Li-storage in TiO2 (B) and TiO2 (anatase). Journal of Power Sources, 2014, 246, 103-109.	4.0	86
48	Lithium Insertion into Zirconia-Stabilized Mesoscopic TiO[sub 2] (Anatase). Journal of the Electrochemical Society, 2000, 147, 2897.	1.3	82
49	Defects in Individual Semiconducting Single Wall Carbon Nanotubes: Raman Spectroscopic and in Situ Raman Spectroelectrochemical Study. Nano Letters, 2010, 10, 4619-4626.	4.5	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.	1.5	77
51	Carbyne forms of carbon: continuation of the story. Carbon, 1994, 32, 1533-1536.	5.4	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.	1.2	75
53	Single Layer Molybdenum Disulfide under Direct Out-of-Plane Compression: Low-Stress Band-Gap Engineering. Nano Letters, 2015, 15, 3139-3146.	4.5	75
54	Electrochemical carbyne from perfluorinated hydrocarbons: Synthesis and stability studied by Raman scattering. Carbon, 1995, 33, 1321-1329.	5.4	74

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55	Novel Synthesis of the TiO2(B) Multilayer Templated Films. Chemistry of Materials, 2009, 21, 1457-1464.	3.2	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.	4.0	68
57	Fabrication of porous boron-doped diamond on SiO2 fiber templates. Carbon, 2017, 114, 457-464.	5.4	68
58	Lithium Insertion into Anatase Inverse Opal. Journal of the Electrochemical Society, 2004, 151, A1301.	1.3	65
59	Phonon and Structural Changes in Deformed Bernal Stacked Bilayer Graphene. Nano Letters, 2012, 12, 687-693.	4.5	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.	2.6	65
61	Voltage enhancement in dye-sensitized solar cell using (001)-oriented anatase TiO2 nanosheets. Journal of Solid State Electrochemistry, 2012, 16, 2993-3001.	1.2	64
62	Water splitting and the band edge positions of TiO2. Electrochimica Acta, 2016, 199, 27-34.	2.6	64
63	Electrochemical Properties of Cu(II/I)-Based Redox Mediators for Dye-Sensitized Solar Cells. Electrochimica Acta, 2017, 227, 194-202.	2.6	63
64	Ionic Liquid for in situ Vis/NIR and Raman Spectroelectrochemistry: Doping of Carbon Nanostructures. ChemPhysChem, 2003, 4, 944-950.	1.0	62
65	In situ Visâ€“NIR and Raman spectroelectrochemistry at fullerene peapods. Chemical Physics Letters, 2002, 361, 79-85.	1.2	61
66	Electrochemical tuning of electronic structure of carbon nanotubes and fullerene peapods. Carbon, 2004, 42, 1011-1019.	5.4	61
67	Development of the Tangential Mode in the Raman Spectra of SWCNT Bundles during Electrochemical Charging. Nano Letters, 2008, 8, 1257-1264.	4.5	60
68	Multilayer Films from Templated TiO₂ and Structural Changes during their Thermal Treatment. Chemistry of Materials, 2008, 20, 2985-2993.	3.2	59
69	Electrochemical Doping of Chirality-Resolved Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 19613-19619.	1.2	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.	1.5	55
71	Conductivity of boron-doped polycrystalline diamond films: influence of specific boron defects. European Physical Journal B, 2013, 86, 1.	0.6	55
72	Structural parameters controlling the performance of organized mesoporous TiO2 films in dye sensitized solar cells. Inorganica Chimica Acta, 2008, 361, 656-662.	1.2	52

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73	Analysis of heavily boron-doped diamond Raman spectrum. Diamond and Related Materials, 2018, 88, 163-166.	1.8	52
74	Electrochemical Charging of Individual Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 2320-2328.	7.3	51
75	Lithium insertion into TiO2 (anatase): electrochemistry, Raman spectroscopy, and isotope labeling. Journal of Solid State Electrochemistry, 2014, 18, 2297-2306.	1.2	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.	1.3	50
77	Diameter-Selective Electrochemical Doping of HiPco Single-Walled Carbon Nanotubes. Nano Letters, 2003, 3, 969-972.	4.5	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.	1.3	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.	1.2	48
80	Surface preparation of TiO2 anatase (101): Pitfalls and how to avoid them. Surface Science, 2014, 626, 61-67.	0.8	47
81	Nafion modified TiO2 electrodes: photoresponse and sensitization by Ru(II)-bipyridyl complexes. Electrochimica Acta, 1989, 34, 1327-1334.	2.6	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.	1.2	46
83	Oxygen-isotope labeled titania: Ti18O2. Physical Chemistry Chemical Physics, 2011, 13, 11583.	1.3	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.	2.6	46
85	In-Situ Vis-Near-Infrared and Raman Spectroelectrochemistry of Double-Walled Carbon Nanotubes. Advanced Functional Materials, 2005, 15, 418-426.	7.8	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.	3.6	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.	2.0	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.	4.5	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.	1.5	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.	2.6	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.	2.2	43
92	Electrochemical tuning of high energy phonon branches of double wall carbon nanotubes. Carbon, 2004, 42, 2915-2920.	5.4	41
93	Interaction of nanodiamond with in situ generated sp-carbon chains probed by Raman spectroscopy. Carbon, 2006, 44, 3113-3116.	5.4	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.	3.2	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.	1.7	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.	1.5	38
97	Solâ€“Gel Titanium Dioxide Blocking Layers for Dyeâ€Sensitized Solar Cells: Electrochemical Characterization. ChemPhysChem, 2014, 15, 1056-1061.	1.0	38
98	Carbon isotope labelling in graphene research. Nanoscale, 2014, 6, 6363.	2.8	38
99	Strain Assessment in Graphene Through the Raman 2Dâ€² Mode. Journal of Physical Chemistry C, 2015, 119, 25651-25656.	1.5	38
100	Alternative bases to 4-tert-butylpyridine for dye-sensitized solar cells employing copper redox mediator. Electrochimica Acta, 2018, 265, 194-201.	2.6	38
101	Charge transfer between two immiscible electrolyte solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 145, 213-218.	0.3	37
102	Lithium insertion into titanium dioxide (anatase) electrodes: microstructure and electrolyte effects. Journal of Solid State Electrochemistry, 2001, 5, 196-204.	1.2	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.	1.2	36
105	Electrochemical characterization of porous boron-doped diamond prepared using SiO2 fiber template. Diamond and Related Materials, 2018, 87, 61-69.	1.8	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.	5.4	35
107	Oxygen-Isotope Exchange between CO2 and Solid Ti18O2. Journal of Physical Chemistry C, 2011, 115, 11156-11162.	1.5	35
108	Boron-doped Diamond Electrodes: Electrochemical, Atomic Force Microscopy and Raman Study towards Corrosion-modifications at Nanoscale. Electrochimica Acta, 2015, 179, 626-636.	2.6	35

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109	Tuning of Sorted Double-Walled Carbon Nanotubes by Electrochemical Charging. ACS Nano, 2010, 4, 459-469.	7.3	34
110	Effects of Heat Treatment on Raman Spectra of Twoâ€Layer ¹²C/¹³C Graphene. Chemistry - A European Journal, 2012, 18, 13877-13884.	1.7	34
111	Electron-Selective Layers for Dye-Sensitized Solar Cells Based on TiO₂ and SnO₂. Journal of Physical Chemistry C, 2020, 124, 6512-6521.	1.5	34
112	Perfluoro anion-exchange polymeric films on glassy carbon electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 280, 313-325.	0.3	32
113	Carbonaceous materials from end-capped alkynes. Carbon, 2002, 40, 345-349.	5.4	32
114	Spectroelectrochemistry of Carbon Nanotubes. ChemPhysChem, 2011, 12, 47-55.	1.0	32
115	The influence of doping on the Raman intensity of the D band in single walled carbon nanotubes. Carbon, 2010, 48, 832-838.	5.4	31
116	Search for the form of fullerene C60 in aqueous medium. Physical Chemistry Chemical Physics, 2010, 12, 14095.	1.3	31
117	Electrochemical Doping of Double-Walled Carbon Nanotubes: An In Situ Raman Spectroelectrochemical Study. ChemPhysChem, 2004, 5, 274-277.	1.0	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.	1.5	30
119	EPR study of 17O-enriched titania nanopowders under UV irradiation. Catalysis Today, 2014, 230, 112-118.	2.2	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.	0.3	29
121	On the stability of polyyne. Chemical Physics, 1992, 168, 249-258.	0.9	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.	2.2	29
123	Nanobubble-assisted formation of carbon nanostructures on basal plane highly ordered pyrolytic graphite exposed to aqueous media. Nanotechnology, 2010, 21, 095707.	1.3	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.	5.2	27
126	The origin of methane and biomolecules from a CO2 cycle on terrestrial planets. Nature Astronomy, 2017, 1, 721-726.	4.2	27

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127	XPS study of carbon in electrochemical reduction products of poly(tetrafluoroethylene). Carbon, 1984, 22, 77-81.	5.4	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.	1.5	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.	1.3	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.	1.7	26
131	Application of graphene-based nanostructures in dye-sensitized solar cells. Physica Status Solidi (B): Basic Research, 2013, 250, 2643-2648.	0.7	26
132	In situ Raman spectroelectrochemistry of graphene oxide. Physica Status Solidi (B): Basic Research, 2013, 250, 2662-2667.	0.7	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.	1.8	26
134	Precursor gas composition optimisation for large area boron doped nano-crystalline diamond growth by MW-LA-PECVD. Carbon, 2018, 128, 164-171.	5.4	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.	1.7	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.	1.5	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.	1.7	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.	1.3	24
139	Electrochemical Doping of Compact TiO₂ Thin Layers. Journal of Physical Chemistry C, 2014, 118, 25970-25977.	1.5	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.	0.9	24
141	Formation of Methane and (Per)Chlorates on Mars. ACS Earth and Space Chemistry, 2019, 3, 221-232.	1.2	24
142	Carbynoid species in electrochemical polymeric carbon. Synthetic Metals, 1993, 58, 63-72.	2.1	23
143	Anodic oxidation of dimethyl sulfoxide based electrolyte solutions: Anin situ FTIR study. Journal of Applied Electrochemistry, 1996, 26, 523-527.	1.5	23
144	Carbonization of Highly Oriented Poly(tetrafluoroethylene). Chemistry of Materials, 1999, 11, 329-335.	3.2	23

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145	Transformation of fullerene peapods to double-walled carbon nanotubes induced by UV radiation. Carbon, 2005, 43, 1610-1616.	5.4	23
146	In situ EPR spectroelectrochemistry of single-walled carbon nanotubes and C60 fullerene peapods. Carbon, 2006, 44, 2147-2154.	5.4	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.	1.7	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.	4.0	23
149	Selectivity of Photoelectrochemical Water Splitting on TiO2 Anatase Single Crystals. Journal of Physical Chemistry C, 2019, 123, 10857-10867.	1.5	23
150	Electrochemical preparation of hydrogen free carbyne-like materials. Carbon, 1998, 36, 801-808.	5.4	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.	1.5	22
152	Visible-light sensitization of boron-doped nanocrystalline diamond through non-covalent surface modification. Physical Chemistry Chemical Physics, 2015, 17, 1165-1172.	1.3	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.	1.9	21
154	Carbon nanostructures from perfluorinated hydrocarbons. Carbon, 1999, 37, 1863-1865.	5.4	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.	3.9	21
156	Electrochemical and chemical redox doping of fullerene (C60) peapods. Carbon, 2006, 44, 99-106.	5.4	21
157	Diamond functionalization with light-harvesting molecular wires: improved surface coverage by optimized Suzuki cross-coupling conditions. RSC Advances, 2014, 4, 42044-42053.	1.7	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.	1.3	21
159	Reaction of hexafluorobenzene and tetradecafluorohexane with lithium amalgam. Journal of Fluorine Chemistry, 1988, 41, 383-391.	0.9	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.	1.2	20
161	Electrochemistry of Carbon Nanotubes. Topics in Applied Physics, 2007, , 567-604.	0.4	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.	1.7	20

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163	Synthesis of nanostructured TiO2 (anatase) and TiO2(B) in ionic liquids. Catalysis Today, 2014, 230, 85-90.	2.2	20
164	Electrochemical Characterization of CuSCN Hole-Extracting Thin Films for Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 4264-4273.	2.5	20
165	The preparation of polymeric carbon from PTFE in the suspension of alkali metals. Carbon, 1999, 37, 1029-1032.	5.4	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.	1.5	19
167	Electrochemistry and perovskite photovoltaics. Current Opinion in Electrochemistry, 2018, 11, 122-129.	2.5	19
168	Rutile TiO2 thin film electrodes with excellent blocking function and optical transparency. Electrochimica Acta, 2019, 321, 134685.	2.6	19
169	Electrochemical nanostructuring of fullerene filmsâ€"spectroscopic evidence for C60 polymer formation and hydrogenation. Physical Chemistry Chemical Physics, 2005, 7, 3179.	1.3	18
170	SPECTROELECTROCHEMICAL RECOGNITION OF CHEMICAL DOPANTS IN THE INNER SPACE OF CARBON NANOSTRUCTURES. Nano, 2006, 01, 219-227.	0.5	18
171	Selective Etching of Thin Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 4529-4534.	6.6	18
172	Optically Transparent FTO-Free Cathode for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 22343-22350.	4.0	18
173	Spontaneous and Photoinduced Conversion of CO₂ on TiO₂ Anatase (001)/(101) Surfaces. Journal of Physical Chemistry C, 2014, 118, 26845-26850.	1.5	18
174	Oxygen Atom Exchange between Gaseous CO₂ and TiO₂ Nanoclusters. Journal of Physical Chemistry C, 2015, 119, 3605-3612.	1.5	18
175	Photocatalytic transformation of CO2 to CH4 and CO on acidic surface of TiO2 anatase. Optical Materials, 2016, 56, 80-83.	1.7	18
176	Synergetic Surface Sensitivity of Photoelectrochemical Water Oxidation on TiO₂ (Anatase) Electrodes. Journal of Physical Chemistry C, 2017, 121, 6024-6032.	1.5	18
177	Optically transparent composite diamond/Ti electrodes. Carbon, 2017, 119, 179-189.	5.4	18
178	Li insertion into Li4Ti5O12 spinel prepared by low temperature solid state route: Charge capability vs surface area. Electrochimica Acta, 2018, 265, 480-487.	2.6	18
179	Electronic resistivity of carbon in the product of electrochemical reduction of poly(tetrafluoroethylene), I. Carbon, 1988, 26, 235-243.	5.4	17
180	Nanocrystalline TiO₂Electrodes Exhibiting High Storage Capacity and Stability in Rechargeable Lithium Batteries. Active and Passive Electronic Components, 1995, 18, 23-30.	0.3	17

#	Article	IF	Citations
181	In Situ Raman Spectroelectrochemistry as a Tool for the Differentiation of Inner Tubes of Double-Wall Carbon Nanotubes and Thin Single-Wall Carbon Nanotubes. Analytical Chemistry, 2007, 79, 9074-9081.	3.2	17
182	Structural properties and electrochemical behavior of CNTâ€TiO₂ nanocrystal heterostructures. Physica Status Solidi (B): Basic Research, 2007, 244, 4040-4045.	0.7	17
183	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.	1.5	17
184	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.	3.2	17
185	Electrochemical properties of spinel Li4Ti5O12 nanoparticles prepared via a low-temperature solid route. Journal of Solid State Electrochemistry, 2016, 20, 2673-2683.	1.2	17
186	Electrochemical reduction of nafion 117. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 208, 109-116.	0.3	16
187	Raman spectroelectrochemistry of index-identified metallic carbon nanotubes: The resonance rule revisited. Physica Status Solidi (B): Basic Research, 2006, 243, 3130-3133.	0.7	16
188	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.	3.8	16
189	Electrochemical Properties of Transparent Conducting Films of Tantalum-Doped Titanium Dioxide. Electrochimica Acta, 2017, 232, 44-53.	2.6	16
190	Study of chemical reactivity of carbon prepared by electrochemical reduction of poly(Tetrafluoroethylene) against NH3, NO and S in the gas phase. Carbon, 1986, 24, 61-65.	5.4	15
191	Study of Nafion films on electrodes prepared from dimethylacetamide solution. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 200, 379-381.	0.3	15
192	Electrochemistry of sulphur adsorbed on carbon. Electrochimica Acta, 1988, 33, 1605-1612.	2.6	15
193	Heterostructures from Single-Wall Carbon Nanotubes and TiO[sub 2] Nanocrystals. Journal of the Electrochemical Society, 2007, 154, K19.	1.3	15
194	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.	2.1	15
195	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.	1.3	15
196	Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. Journal of Power Sources, 2020, 458, 228067.	4.0	15
197	New synthesis of Î±,Ï‰-diiodoalkynes and capped iodobutadiynes. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 705-706.	1.3	14
198	Large Variety of Behaviors for the Raman Gâ€² Mode of Single Walled Carbon Nanotubes upon Electrochemical Gating Arising from Different (n,m) of Individual Nanotubes. Journal of Physical Chemistry C, 2009, 113, 1751-1757.	1.5	14

#	Article	IF	Citations
199	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.	0.4	14
200	Modification of glassy carbon electrodes by a new type of polymeric viologen. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 180, 109-120.	0.3	13
201	The effect of pulsed laser irradiation on the properties of glassy carbon electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 250, 173-181.	0.3	13
202	Electrochemical polymerization of N-alkenylpyrroles. Synthetic Metals, 1994, 66, 165-168.	2.1	13
203	Modification of electrochemical carbon by in situ generated carbenes. Carbon, 1997, 35, 127-131.	5.4	13
204	Comment on â€œDetermination of the Exciton Binding Energy in Single-Walled Carbon Nanotubesâ€• Physical Review Letters, 2007, 98, 019701; author reply 019702.	2.9	13
205	Inâ€…Situ Raman Spectroelectrochemical Study of13C-Labeled Fullerene Peapods and Carbon Nanotubes. Small, 2007, 3, 1746-1752.	5.2	13
206	Molecular Wiring of Olivine LiFePO₄ by Ruthenium(II)-Bipyridine Complexes and by Their Assemblies with Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 8708-8714.	1.5	13
207	Carbon Nanotube Electrodes for Hotâ€Wire Electrochemistry. ChemPhysChem, 2009, 10, 559-563.	1.0	13
208	Electron Kinetics in Dye Sensitized Solar Cells Employing Anatase with (101) and (001) Facets. Electrochimica Acta, 2015, 160, 296-305.	2.6	13
209	Very thin thermally stable TiO2 blocking layers with enhanced electron transfer for solar cells. Applied Materials Today, 2017, 9, 122-129.	2.3	13
210	All-diamond functional surface micro-electrode arrays for brain-slice neural analysis. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1532347.	0.8	13
211	Functionalization of boron-doped diamond with a pushâ€“pull chromophore via Sonogashira and CuAAC chemistry. RSC Advances, 2018, 8, 33276-33290.	1.7	13
212	EPR study of carbon in the products of the electrochemical reduction of poly(tetrafluoroethylene). Carbon, 1985, 23, 45-49.	5.4	12
213	Chemisorption of oxygen on carbon produced by electrochemical reduction of poly(tetrafluoroethylene). Carbon, 1986, 24, 671-676.	5.4	12
214	Carbonization of 1,4-diiodo-1,3-butadiyne and 1-iodo-1,3,5-hexatriyne inside the MCM-41 molecular sieve. Carbon, 2001, 39, 53-60.	5.4	12
215	Carbonaceous polymers and nanotubes from Î±,Ï‰-dialkali hexatriynides. Carbon, 2002, 40, 1147-1150.	5.4	12
216	Porous Films from TiO[sub 2] (Anatase) with Bimodal Morphology. Electrochemical and Solid-State Letters, 2007, 10, A85.	2.2	12

#	Article	IF	Citations
217	Electrochemical impedance spectroscopy of mesoporous Al-stabilized TiO2 (anatase) in aprotic medium. Journal of Solid State Electrochemistry, 2007, 11, 1163-1169.	1.2	12
218	Rotating Cell for in Situ Raman Spectroelectrochemical Studies of Photosensitive Redox Systems. Analytical Chemistry, 2009, 81, 2017-2021.	3.2	12
219	Nanofibrous TiO2 improving performance of mesoporous TiO2 electrode in dye-sensitized solar cell. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	12
220	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.	1.2	12
221	n-Type phosphorus-doped nanocrystalline diamond: electrochemical and in situ Raman spectroelectrochemical study. RSC Advances, 2016, 6, 51387-51393.	1.7	12
222	Stress and charge transfer in uniaxially strained CVD graphene. Physica Status Solidi (B): Basic Research, 2016, 253, 2355-2361.	0.7	12
223	Fine tuning of optical transition energy of twisted bilayer graphene via interlayer distance modulation. Physical Review B, 2017, 95, .	1.1	12
224	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.	1.5	12
225	Electrodes modified by perfluoro ion exchange polymeric films prepared from aqueous solutions of Nafion and Tosflex. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 303, 237-244.	0.3	11
226	Electrochemical polymerization of Î±,Ï‰-di(N-pyrrolyl)alkanes. Synthetic Metals, 1994, 63, 209-212.	2.1	11
227	The Application of Electrospun Titania Nanofibers in Dye-sensitized Solar Cells. Chimia, 2013, 67, 149-154.	0.3	11
228	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.	2.3	11
229	Fixation of bromine to carbon in products of electrochemical reduction of poly-(tetrafluoroethylene). Carbon, 1985, 23, 405-409.	5.4	10
230	Electrochemical reductive carbonization of polymers derived from hexafluoropropene. Journal of Fluorine Chemistry, 1991, 55, 37-45.	0.9	10
231	Preparation of polymeric carbon from diiodoacetylene and tetraiodoethylene. Angewandte Makromolekulare Chemie, 1998, 254, 75-78.	0.3	10
232	The identification of dispersive and non-dispersive intermediate frequency modes of HiPco single walled carbon nanotubes by in situ Raman spectroelectrochemistry. Physica Status Solidi (B): Basic Research, 2006, 243, 3134-3137.	0.7	10
233	In situ optical spectroelectrochemistry of single-walled carbon nanotube thin films. Journal of Solid State Electrochemistry, 2008, 12, 1279-1284.	1.2	10
234	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.	1.5	10

#	Article	IF	Citations
235	Na insertion into nanocrystalline Li4Ti5O12 spinel: An electrochemical study. Electrochimica Acta, 2017, 245, 505-511.	2.6	10
236	Chemical Vapor Deposition of MoS₂ for Energy Harvesting: Evolution of the Interfacial Oxide Layer. ACS Applied Nano Materials, 2020, 3, 6563-6573.	2.4	10
237	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.	1.2	10
238	Electronic resistivity of carbon in the product of electrochemical reduction of poly(tetrafluoroethylene), II. theoretical considerations. Carbon, 1988, 26, 245-247.	5.4	9
239	UV-Vis absorption of thin electrochemical carbon layers on poly(tetrafluoroethylene-co-hexafluoropropene). Synthetic Metals, 1994, 63, 147-152.	2.1	9
240	Adsorption of Nitrogen on Electrochemical Carbon. Langmuir, 1995, 11, 4596-4597.	1.6	9
241	Isolated Nanoribbons of Carbon Nanotubes and Peapods. ChemPhysChem, 2005, 6, 426-430.	1.0	9
242	Redox Doping of Doubleâ€Wall Carbon Nanotubes and C60Peapods. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 115-119.	1.0	9
243	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.	1.8	9
244	Titania nanofiber photoanodes for dye-sensitized solar cells. Catalysis Today, 2014, 230, 234-239.	2.2	9
245	Room temperature spontaneous conversion of OCS to CO2 on the anatase TiO2 surface. Chemical Communications, 2014, 50, 7712-7715.	2.2	9
246	Electrochemical performance of sol-gel-made Na2Ti3O7 anode material for Na-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2545-2552.	1.2	9
247	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.	1.5	8
248	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
249	Progressive In Situ Reduction of Graphene Oxide Studied by Raman Spectroelectrochemistry: Implications for a Spontaneous Activation of LiFePO₄ (Olivine). Electroanalysis, 2014, 26, 57-61.	1.5	8
250	Transparent rutile TiO2 films prepared by thermal oxidation of sputtered Ti on FTO glass. Photochemical and Photobiological Sciences, 2019, 18, 891-896.	1.6	8
251	Nanocrystalline TiO2/Carbon/Sulfur Composite Cathodes for Lithiumâ€“Sulfur Battery. Nanomaterials, 2021, 11, 541.	1.9	8
252	Nickel(II) complexes of ethylenediphosphinetetra-acetic acid. Polyhedron, 1984, 3, 963-968.	1.0	7

#	Article	IF	Citations
253	(Photo) anodic decomposition of 3-methyl oxazolidin-2-one An in-situ FTIR study. Journal of Electroanalytical Chemistry, 1997, 433, 187-193.	1.9	7
254	Nanocrystalline TiO₂ for Solar Cells and Lithium Batteries. Advances in Science and Technology, 2006, 51, 20.	0.2	7
255	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.	0.7	7
256	Molecular Wiring of LiFePO4 (Olivine). Chemistry of Materials, 2008, 20, 3163-3168.	3.2	7
257	On the Stability of Fullerene C₆₀in Aqueous Medium. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 737-742.	1.0	7
258	Raman spectroscopy investigation of defect occurrence in graphene grown on copper single crystals. Physica Status Solidi (B): Basic Research, 2013, 250, 2653-2658.	0.7	7
259	Graphene under direct compression: Stress effects and interlayer coupling. Physica Status Solidi (B): Basic Research, 2016, 253, 2336-2341.	0.7	7
260	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.	0.3	7
261	Photogenerated charge collection on diamond electrodes with covalently linked chromophore monolayers. Electrochimica Acta, 2020, 337, 135762.	2.6	7
262	Scandium, yttrium and lanthanum phosphites. Journal of the Less Common Metals, 1981, 81, 55-60.	0.9	6
263	Can linear carbon chains be synthesized?. Synthetic Metals, 1993, 57, 4405-4410.	2.1	6
264	Heat losses in GrÃtzel solar cells. Solar Energy Materials and Solar Cells, 1999, 57, 359-371.	3.0	6
265	Raman Spectroelectrochemistry of Ordered C60Fullerene Layers. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 159-166.	1.0	6
266	Doping of C₆₀ Fullerene Peapods with Lithium Vapor: Raman Spectroscopic and Spectroelectrochemical Studies. Chemistry - A European Journal, 2008, 14, 6231-6236.	1.7	6
267	Electrochemical Properties of the Supramolecular Assembly of Ruthenium(II)-bipyridine Complex with Single-Walled Carbon Nanotubes. Journal of the Electrochemical Society, 2009, 156, K44.	1.3	6
268	Phosphites of some trivalent metals from the first transition series. Collection of Czechoslovak Chemical Communications, 1979, 44, 2737-2742.	1.0	6
269	Atom by atom built subnanometer copper cluster catalyst for the highly selective oxidative dehydrogenation of cyclohexene. Journal of Chemical Physics, 2022, 156, 114302.	1.2	6
270	Electrochemical characterization of the permeability and the loss of adhesion of Plasma-polymerized hexafluoropropene films on platinum. Materials and Corrosion - Werkstoffe Und Korrosion, 1991, 42, 309-316.	0.8	5

#	Article	IF	Citations
271	Simultaneous fluorine elimination and alkylation of poly(tetrafluoroethylene). Angewandte Makromolekulare Chemie, 1996, 238, 165-175.	0.3	5
272	Surface modification of poly(tetrafluoroethylene) by magnesium amalgam. Journal of Materials Science, 2001, 36, 879-885.	1.7	5
273	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, 5415-5415.	1.7	5
274	Nanomaterials based on carbon and Ti(IV) oxides: some aspects of their electrochemistry. International Journal of Nanotechnology, 2012, 9, 652.	0.1	5
275	Electrochemical impedance of a polymer-coated electrode with circular delamination around a defect site. Electrochimica Acta, 1992, 37, 997-1002.	2.6	4
276	Evaluation of parameters for anodic polarisation curve from the experimentally measured Uâ€“I dependence for an electrochemical photovoltaic regenerative solar cell. Solar Energy Materials and Solar Cells, 1998, 51, 155-169.	3.0	4
277	Derivatization of polymeric carbon isolated after polymerization of diiodoacetylene. Angewandte Makromolekulare Chemie, 1998, 259, 83-85.	0.3	4
278	Surface Investigations on Single Crystal Anatase TiO2. Materials Research Society Symposia Proceedings, 2000, 623, 43.	0.1	4
279	Nanocarbons made by soft chemistry. Molecular Crystals and Liquid Crystals, 2002, 386, 167-172.	0.4	4
280	Room-Temperature Synthesis of Carbonaceous Films of Defined Thickness. Chemistry of Materials, 2004, 16, 4043-4049.	3.2	4
281	LÃ¶slichkeitsuntersuchung im System FeHPO₃â€“H₃PO₃â€“H₂O bei 25Â°C. Zeitschrift FÃ¼r Chemie, 1978, 18, 78-79.	0.0	4
282	Evaluation of defect concentration in doped SWCNT. Physica Status Solidi (B): Basic Research, 2010, 247, 2797-2800.	0.7	4
283	Doping of C₇₀ fullerene peapods with lithium vapor: Raman spectroscopic and Raman spectroelectrochemical studies. Nanotechnology, 2014, 25, 485706.	1.3	4
284	Raman and Infrared Spectroscopy. Physics and Chemistry of Materials With Low-dimensional Structures, 1999, , 343-356.	1.0	4
285	The TiO₂-Modified Separator Improving the Electrochemical Performance of Lithium-Sulfur Battery. ECS Transactions, 2021, 105, 183-189.	0.3	4
286	Chemical bonding of the triethylplumbyl group on polymeric carbon via its bromo derivative. Carbon, 1986, 24, 159-162.	5.4	3
287	Optimization of parameters of an electrochemical photovoltaic regenerative solar cell. Solar Energy Materials and Solar Cells, 1996, 43, 249-262.	3.0	3
288	Raman spectroscopy and spectroelectrochemistry of the chemically nâ€doped DWCNT. Physica Status Solidi (B): Basic Research, 2007, 244, 4086-4091.	0.7	3

#	Article	IF	Citations
289	Raman spectroscopy of isotopically labeled twoâ€layer graphene. Physica Status Solidi (B): Basic Research, 2012, 249, 2500-2502.	0.7	3
290	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.	2.6	3
291	In Situ Raman Microdroplet Spectroelectrochemical Investigation of CuSCN Electrodeposited on Different Substrates. Nanomaterials, 2021, 11, 1256.	1.9	3
292	Reconstruction of SnO2 after cathodic polarization of FTO films - A simple way of fabricating orthorhombic SnO2. Materials Chemistry and Physics, 2021, 273, 125038.	2.0	3
293	Diphosphites of bivalent metals. Collection of Czechoslovak Chemical Communications, 1978, 43, 3317-3324.	1.0	3
294	Titania Containing Cathodes for Lithium-Sulfur Batteries: Case Studies by Electrochemical Impedance Spectroscopy. ECS Transactions, 2021, 105, 169-176.	0.3	3
295	Synthesis of All-carbon Chains and Nanoparticles by Chemical Transformation of Halogenated Hydrocarbons at Low Temperatures. Tanso, 2001, 2001, 22-38.	0.1	2
296	Lithium Storage in Nanostructured TiO2 Made by Hydrothermal Growth.. ChemInform, 2004, 35, no.	0.1	2
297	The reaction of lithium metal vapor with single walled carbon nanotubes of large diameters. Physica Status Solidi (B): Basic Research, 2009, 246, 2428-2431.	0.7	2
298	Molecular wiring of LiMnPO4 (olivine) by ruthenium(II)-bipyridine complexes. Electrochemistry Communications, 2009, 11, 2137-2140.	2.3	2
299	Surface Sensitivity of Hydrogen Evolution and Formaldehyde Reduction on Differently Oriented TiO2 Anatase Nanocrystals. Electrocatalysis, 2021, 12, 15-25.	1.5	2
300	Beitrag zur Untersuchung der KoordinationssphÃre des Zentralatoms in einigen Chrom(III)-phosphiten. Collection of Czechoslovak Chemical Communications, 1976, 41, 23-28.	1.0	2
301	Study of chromium(II) phosphites. Collection of Czechoslovak Chemical Communications, 1979, 44, 1353-1361.	1.0	2
302	Nanocrystalline TiO₂ and Li₄Ti₅O₁₂ as Novel Inorganic Host Materials for Li-S Batteries. ECS Transactions, 2020, 99, 151-159.	0.3	2
303	In-situ Raman and Vis-NIR spectroelectrochemistry at carbon nanotubes. AIP Conference Proceedings, 2000, , .	0.3	1
304	Anatase Inverse Opal: Preparation and Electrochemical Properties. Materials Research Society Symposia Proceedings, 2004, 820, 19.	0.1	1
305	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
306	Electrochemical Performance of LiNixMnyCozO2 (NMC) Materials with Hollow Spheres Morphology. ECS Transactions, 2019, 95, 55-63.	0.3	1

#	Article	IF	Citations
307	<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.	2.2	1
308	Atomic layer deposited films of Al2O3 on fluorine-doped tin oxide electrodes: stability and barrier properties. Beilstein Journal of Nanotechnology, 2021, 12, 24-34.	1.5	1
309	Electrochemical Methods. Physics and Chemistry of Materials With Low-dimensional Structures, 1999, , 189-214.	1.0	1
310	Blei(II)-phosphite. Collection of Czechoslovak Chemical Communications, 1976, 41, 3206-3212.	1.0	1
311	Electronic Properties of Electrochemical Polymeric Carbon. Springer Series in Solid-state Sciences, 1992, , 424-428.	0.3	1
312	Electrochemical preparation of carbon chains and nanoparticles. , 1999, , .		0
313	The inclusion of polymeric carbon in channels of the siliceous MCM-41 mesoporous molecular sieve. Studies in Surface Science and Catalysis, 2000, 129, 349-356.	1.5	0
314	Nanotextured carbon films from fluorinated hydrocarbons: Kinetics and mechanism of their growth. AIP Conference Proceedings, 2000, , .	0.3	0
315	Tuning of electronic structure of single-walled carbon nanotubes: In-Situ Raman and Vis-NIR spectroelectrochemical study. AIP Conference Proceedings, 2001, , .	0.3	0
316	In-situ Raman Spectroelectrochemistry on Fullerene Peapods. AIP Conference Proceedings, 2002, , .	0.3	0
317	Ionic Liquid for in situ Vis/NIR and Raman Spectroelectrochemistry: Doping of Carbon Nanostructures. ChemPhysChem, 2003, 4, 1148-1148.	1.0	0
318	Tuning of Electronic Structure of C60@SWCNT and C70@SWCNT (Peapods): In-Situ Raman and Vis-NIR Spectroelectrochemical Study. AIP Conference Proceedings, 2003, , .	0.3	0
319	The redox behavior of potassium doped C60 peapods. AIP Conference Proceedings, 2004, , .	0.3	0
320	Distinct Redox Doping of Core/Shell Nanostructures: Double Wall Carbon Nanotubes. AIP Conference Proceedings, 2004, , .	0.3	0
321	Isolation of Carbon Nanostructures. AIP Conference Proceedings, 2005, , .	0.3	0
322	OPTICAL AND RAMAN SPECTROELECTROCHEMISTRY OF CARBON NANOSTRUCTURES. , 2005, , .		0
323	Electrochemical Synthesis of Carbyne-Like Materials and Other Nanocarbons. , 2005, , 53-78.		0
324	Electron/Hole-Selective Interfaces in Perovskite Photovoltaics: Electrochemical Studies. ECS Meeting Abstracts, 2019, , .	0.0	0

#	Article	IF	Citations
325	Electrochemical Charging of Nanocarbons: Fullerenes, Nanotubes, Peapods. , 2004, , 51-62.		0