Ladislav Kavan

List of Publications by Year in Descending Order

311 papers	15,567 citations	59 h-index	115 g-index
349 ext. papers	16,496 ext. citations	6 avg, IF	6.72 L-index

#	Paper	IF	Citations
311	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	2.6	0
310	Atom by atom built subnanometer copper cluster catalyst for the highly selective oxidative dehydrogenation of cyclohexene.. *Journal of Chemical Physics*, **2022**, 156, 114302	3.9	0
309	In Situ Raman Microdroplet Spectroelectrochemical Investigation of CuSCN Electrodeposited on Different Substrates. *Nanomaterials*, **2021**, 11,	5.4	3
308	Surface Sensitivity of Hydrogen Evolution and Formaldehyde Reduction on Differently Oriented TiO2 Anatase Nanocrystals. *Electrocatalysis*, **2021**, 12, 15-25	2.7	1
307	Atomic layer deposited films of AlO on fluorine-doped tin oxide electrodes: stability and barrier properties. *Beilstein Journal of Nanotechnology*, **2021**, 12, 24-34	3	0
306	Work Function of TiO2 (Anatase, Rutile, and Brookite) Single Crystals: Effects of the Environment. *Journal of Physical Chemistry C*, **2021**, 125, 1902-1912	3.8	24
305	Nanocrystalline TiO/Carbon/Sulfur Composite Cathodes for Lithium-Sulfur Battery. *Nanomaterials*, **2021**, 11,	5.4	1
304	Reconstruction of SnO2 after cathodic polarization of FTO films - A simple way of fabricating orthorhombic SnO2. *Materials Chemistry and Physics*, **2021**, 273, 125038	4.4	
303	Chemical Vapor Deposition of MoS2 for Energy Harvesting: Evolution of the Interfacial Oxide Layer. *ACS Applied Nano Materials*, **2020**, 3, 6563-6573	5.6	4
302	Selected Electrochemical Properties of 4,4P((1E,1Æ)-((1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(,-di-p-tolylaniline) towards Perovskite Solar Cells with 14.4% Efficiency. *Materials*, **2020**, 13,	3.5	6
301	LiNi1/3Mn1/3Co1/3O2 with morphology optimized for novel concept of 3D Li accumulator. *International Journal of Energy Research*, **2020**, 44, 9082-9092	4.5	
300	Electron-Selective Layers for Dye-Sensitized Solar Cells Based on TiO2 and SnO2. *Journal of Physical Chemistry C*, **2020**, 124, 6512-6521	3.8	22
299	Photogenerated charge collection on diamond electrodes with covalently linked chromophore monolayers. *Electrochimica Acta*, **2020**, 337, 135762	6.7	4
298	Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. *Journal of Power Sources*, **2020**, 458, 228067	8.9	9
297	Transparent rutile TiO films prepared by thermal oxidation of sputtered Ti on FTO glass. *Photochemical and Photobiological Sciences*, **2019**, 18, 891-896	4.2	6
296	Electrochemical Characterization of CuSCN Hole-Extracting Thin Films for Perovskite Photovoltaics. *ACS Applied Energy Materials*, **2019**, 2, 4264-4273	6.1	15
295	Selectivity of Photoelectrochemical Water Splitting on TiO2 Anatase Single Crystals. *Journal of Physical Chemistry C*, **2019**, 123, 10857-10867	3.8	21

294	Rutile TiO2 thin film electrodes with excellent blocking function and optical transparency. *Electrochimica Acta*, **2019**, 321, 134685	6.7	16
293	Formation of Methane and (Per)Chlorates on Mars. *ACS Earth and Space Chemistry*, **2019**, 3, 221-232	3.2	18
292	Conduction band engineering in semiconducting oxides (TiO2, SnO2): Applications in perovskite photovoltaics and beyond. *Catalysis Today*, **2019**, 328, 50-56	5.3	24
291	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. *Energy and Environmental Science*, **2018**, 11, 1779-1787	35.4	112
290	Li insertion into Li4Ti5O12 spinel prepared by low temperature solid state route: Charge capability vs surface area. *Electrochimica Acta*, **2018**, 265, 480-487	6.7	17
289	Alternative bases to 4-tert-butylpyridine for dye-sensitized solar cells employing copper redox mediator. *Electrochimica Acta*, **2018**, 265, 194-201	6.7	29
288	Chemical modification of diamond surface by a donor□cceptor organic chromophore (P1): Optimization of surface chemistry and electronic properties of diamond. *Applied Materials Today*, **2018**, 12, 153-162	6.6	11
287	Electrochemical performance of sol-gel-made Na2Ti3O7 anode material for Na-ion batteries. *Journal of Solid State Electrochemistry*, **2018**, 22, 2545-2552	2.6	8
286	Comparative SIFT-MS, GC□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	1.3	11
285	Analysis of heavily boron-doped diamond Raman spectrum. *Diamond and Related Materials*, **2018**, 88, 163-166	3.5	30
284	Nanocrystalline Boron-Doped Diamond as a Corrosion-Resistant Anode for Water Oxidation via Si Photoelectrodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 29552-29564	9.5	17
283	Precursor gas composition optimisation for large area boron doped nano-crystalline diamond growth by MW-LA-PECVD. *Carbon*, **2018**, 128, 164-171	10.4	19
282	Molecular Design of Efficient Organic D-A-□A Dye Featuring Triphenylamine as Donor Fragment for Application in Dye-Sensitized Solar Cells. *ChemSusChem*, **2018**, 11, 494-502	8.3	28
281	Layered LiNi1/3Mn1/3Co1/3O2 (NMC) with Optimized Morphology for Li-Ion Batteries. *ECS Transactions*, **2018**, 87, 67-75	1	4
280	Electrochemistry and perovskite photovoltaics. *Current Opinion in Electrochemistry*, **2018**, 11, 122-129	7.2	19
279	Functionalization of boron-doped diamond with a push-pull chromophore Sonogashira and CuAAC chemistry.. *RSC Advances*, **2018**, 8, 33276-33290	3.7	9
278	Graphene Electrocatalysts for I-Mediated Dye-Sensitized Solar Cells **2018**, 123-153		
277	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	3	11

276	Electrochemical characterization of porous boron-doped diamond prepared using SiO2 fiber template. *Diamond and Related Materials*, **2018**, 87, 61-69	3.5	23
275	Electrochemical Properties of Cu(II/I)-Based Redox Mediators for Dye-Sensitized Solar Cells. *Electrochimica Acta*, **2017**, 227, 194-202	6.7	51
274	Insight into boron-doped diamond Raman spectra characteristic features. *Carbon*, **2017**, 115, 279-284	10.4	80
273	Fine tuning of optical transition energy of twisted bilayer graphene via interlayer distance modulation. *Physical Review B*, **2017**, 95,	3.3	11
272	Electrochemical Properties of Transparent Conducting Films of Tantalum-Doped Titanium Dioxide. *Electrochimica Acta*, **2017**, 232, 44-53	6.7	14
271	Synergetic Surface Sensitivity of Photoelectrochemical Water Oxidation on TiO2 (Anatase) Electrodes. *Journal of Physical Chemistry C*, **2017**, 121, 6024-6032	3.8	13
270	Optically transparent composite diamond/Ti electrodes. *Carbon*, **2017**, 119, 179-189	10.4	15
269	Na insertion into nanocrystalline Li4Ti5O12 spinel: An electrochemical study. *Electrochimica Acta*, **2017**, 245, 505-511	6.7	9
268	Electrochemistry and dye-sensitized solar cells. *Current Opinion in Electrochemistry*, **2017**, 2, 88-96	7.2	77
267	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
266	Fabrication of porous boron-doped diamond on SiO2 fiber templates. *Carbon*, **2017**, 114, 457-464	10.4	51
265	Ultrathin Buffer Layers of SnO2 by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. *Journal of Physical Chemistry C*, **2017**, 121, 342-350	3.8	84
264	The origin of methane and biomolecules from a CO2 cycle on terrestrial planets. *Nature Astronomy*, **2017**, 1, 721-726	12.1	17
263	Novel highly active Pt/graphene catalyst for cathodes of Cu(II/I)-mediated dye-sensitized solar cells. *Electrochimica Acta*, **2017**, 251, 167-175	6.7	36
262	Very thin thermally stable TiO2 blocking layers with enhanced electron transfer for solar cells. *Applied Materials Today*, **2017**, 9, 122-129	6.6	11
261	All-diamond functional surface micro-electrode arrays for brain-slice neural analysis. *Physica Status Solidi (A) Applications and Materials Science*, **2017**, 214, 1532347	1.6	12
260	Graphene under direct compression: Stress effects and interlayer coupling. *Physica Status Solidi (B): Basic Research*, **2016**, 253, 2336-2341	1.3	7
259	Stress and charge transfer in uniaxially strained CVD graphene. *Physica Status Solidi (B): Basic Research*, **2016**, 253, 2355-2361	1.3	11

258	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. *Journal of the American Chemical Society*, **2016**, 138, 15087-15096	16.4	174
257	Electrochemical properties of spinel Li4Ti5O12 nanoparticles prepared via a low-temperature solid route. *Journal of Solid State Electrochemistry*, **2016**, 20, 2673-2683	2.6	14
256	Efficiency and stability of spectral sensitization of boron-doped-diamond electrodes through covalent anchoring of a donor-acceptor organic chromophore (P1). *Physical Chemistry Chemical Physics*, **2016**, 18, 16444-50	3.6	19
255	Water splitting and the band edge positions of TiO2. *Electrochimica Acta*, **2016**, 199, 27-34	6.7	48
254	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	6.7	42
253	Photocatalytic transformation of CO2 to CH4 and CO on acidic surface of TiO2 anatase. *Optical Materials*, **2016**, 56, 80-83	3.3	16
252	In situ Raman spectroelectrochemistry as a useful tool for detection of TiO2(anatase) impurities in TiO2(B) and TiO2(rutile). *Monatshefte F□ Chemie*, **2016**, 147, 951-959	1.4	15
251	n-Type phosphorus-doped nanocrystalline diamond: electrochemical and in situ Raman spectroelectrochemical study. *RSC Advances*, **2016**, 6, 51387-51393	3.7	11
250	Boron-doped Diamond Electrodes: Electrochemical, Atomic Force Microscopy and Raman Study towards Corrosion-modifications at Nanoscale. *Electrochimica Acta*, **2015**, 179, 626-636	6.7	26
249	Single Layer Molybdenum Disulfide under Direct Out-of-Plane Compression: Low-Stress Band-Gap Engineering. *Nano Letters*, **2015**, 15, 3139-46	11.5	64
248	Electrochemical impedance spectroscopy of polycrystalline boron doped diamond layers with hydrogen and oxygen terminated surface. *Diamond and Related Materials*, **2015**, 55, 70-76	3.5	19
247	Visible-light sensitization of boron-doped nanocrystalline diamond through non-covalent surface modification. *Physical Chemistry Chemical Physics*, **2015**, 17, 1165-72	3.6	21
246	Dye-sensitization of boron-doped diamond foam: champion photoelectrochemical performance of diamond electrodes under solar light illumination. *RSC Advances*, **2015**, 5, 81069-81077	3.7	25
245	Strain Assessment in Graphene Through the Raman 2D? Mode. *Journal of Physical Chemistry C*, **2015**, 119, 25651-25656	3.8	30
244	Resolving the Controversy about the Band Alignment between Rutile and Anatase: The Role of OH⁄H+ Adsorption. *Journal of Physical Chemistry C*, **2015**, 119, 21952-21958	3.8	42
243	Electron Kinetics in Dye Sensitized Solar Cells Employing Anatase with (101) and (001) Facets. *Electrochimica Acta*, **2015**, 160, 296-305	6.7	11
242	Oxygen Atom Exchange between Gaseous CO2 and TiO2 Nanoclusters. *Journal of Physical Chemistry C*, **2015**, 119, 3605-3612	3.8	13
241	Titania nanofiber photoanodes for dye-sensitized solar cells. *Catalysis Today*, **2014**, 230, 234-239	5.3	9

240	Sol-gel titanium dioxide blocking layers for dye-sensitized solar cells: electrochemical characterization. *ChemPhysChem*, **2014**, 15, 1056-61	3.2	34
239	Synthesis of nanostructured TiO2 (anatase) and TiO2(B) in ionic liquids. *Catalysis Today*, **2014**, 230, 85-90	5.3	19
238	Progressive In Situ Reduction of Graphene Oxide Studied by Raman Spectroelectrochemistry: Implications for a Spontaneous Activation of LiFePO4 (Olivine). *Electroanalysis*, **2014**, 26, 57-61	3	8
237	Electrochemical Characterization of TiO2 Blocking Layers for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16408-16418	3.8	181
236	Interaction between graphene and copper substrate: The role of lattice orientation. *Carbon*, **2014**, 68, 440-451	10.4	145
235	Spontaneous and Photoinduced Conversion of CO2 on TiO2 Anatase (001)/(101) Surfaces. *Journal of Physical Chemistry C*, **2014**, 118, 26845-26850	3.8	14
234	Electrochemical Doping of Compact TiO2 Thin Layers. *Journal of Physical Chemistry C*, **2014**, 118, 25970-25977	3.8	23
233	Room temperature spontaneous conversion of OCS to CO2 on the anatase TiO2 surface. *Chemical Communications*, **2014**, 50, 7712-5	5.8	7
232	Diamond functionalization with light-harvesting molecular wires: improved surface coverage by optimized Suzuki cross-coupling conditions. *RSC Advances*, **2014**, 4, 42044-42053	3.7	20
231	Lithium insertion into TiO2 (anatase): electrochemistry, Raman spectroscopy, and isotope labeling. *Journal of Solid State Electrochemistry*, **2014**, 18, 2297-2306	2.6	43
230	Carbon isotope labelling in graphene research. *Nanoscale*, **2014**, 6, 6363-70	7.7	34
229	EPR study of 17O-enriched titania nanopowders under UV irradiation. *Catalysis Today*, **2014**, 230, 112-118	3.3	26
228	Surface preparation of TiO2 anatase (101): Pitfalls and how to avoid them. *Surface Science*, **2014**, 626, 61-67	1.8	37
227	Doping of C70 fullerene peapods with lithium vapor: Raman spectroscopic and Raman spectroelectrochemical studies. *Nanotechnology*, **2014**, 25, 485706	3.4	4
226	Optically transparent FTO-free cathode for dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 22343-50	9.5	16
225	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. *Electrochimica Acta*, **2014**, 128, 349-359	6.7	84
224	Capacitive contribution to Li-storage in TiO2 (B) and TiO2 (anatase). *Journal of Power Sources*, **2014**, 246, 103-109	8.9	68
223	Exploiting nanocarbons in dye-sensitized solar cells. *Topics in Current Chemistry*, **2014**, 348, 53-93		26

222	Nanofibrous TiO2 improving performance of mesoporous TiO2 electrode in dye-sensitized solar cell. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	11
221	ZnO□bnic liquid hybrid films: electrochemical synthesis and application in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 10173	13	20
220	Lithium Insertion into Titanium Dioxide (Anatase): A Raman Study with 16/18O and 6/7Li Isotope Labeling. *Chemistry of Materials*, **2013**, 25, 3710-3717	9.6	12
219	Metal free sensitizer and catalyst for dye sensitized solar cells. *Energy and Environmental Science*, **2013**, 6, 3439	35.4	326
218	Dense TiO2 films grown by sol□el dip coating on glass, F-doped SnO2, and silicon substrates. *Journal of Materials Research*, **2013**, 28, 385-393	2.5	12
217	Conductivity of boron-doped polycrystalline diamond films: influence of specific boron defects. *European Physical Journal B*, **2013**, 86, 1	1.2	44
216	Application of graphene-based nanostructures in dye-sensitized solar cells. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2643-2648	1.3	24
215	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	6.7	59
214	The application of high-resolution IR spectroscopy and isotope labeling for detailed investigation of TiO2/gas interface reactions. *Optical Materials*, **2013**, 36, 159-162	3.3	16
213	Raman spectroscopy investigation of defect occurrence in graphene grown on copper single crystals. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2653-2658	1.3	7
212	The application of electrospun titania nanofibers in dye-sensitized solar cells. *Chimia*, **2013**, 67, 149-54	1.3	9
211	In situ Raman spectroelectrochemistry of graphene oxide. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2662-2667	1.3	20
210	Raman spectroscopy of isotopically labeled two-layer graphene. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2500-2502	1.3	3
209	Voltage enhancement in dye-sensitized solar cell using (001)-oriented anatase TiO2 nanosheets. *Journal of Solid State Electrochemistry*, **2012**, 16, 2993-3001	2.6	61
208	Photochemistry and Gas-Phase FTIR Spectroscopy of Formic Acid Interaction with Anatase Ti18O2 Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 11200-11205	3.8	31
207	Effects of heat treatment on Raman spectra of two-layer 12C/13C graphene. *Chemistry - A European Journal*, **2012**, 18, 13877-84	4.8	32
206	On the Stability of Fullerene C60 in Aqueous Medium. *Fullerenes Nanotubes and Carbon Nanostructures*, **2012**, 20, 737-742	1.8	7
205	Optically transparent cathode for Co(III/II) mediated dye-sensitized solar cells based on graphene oxide. *ACS Applied Materials & Interfaces*, **2012**, 4, 6999-7006	9.5	105

204	Raman spectra of titanium dioxide (anatase, rutile) with identified oxygen isotopes (16, 17, 18). *Physical Chemistry Chemical Physics*, **2012**, 14, 14567-72	3.6	322
203	Electrochemistry of titanium dioxide: some aspects and highlights. *Chemical Record*, **2012**, 12, 131-42	6.6	115
202	Phonon and structural changes in deformed Bernal stacked bilayer graphene. *Nano Letters*, **2012**, 12, 687-93	11.5	58
201	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	3.8	52
200	The control of graphene double-layer formation in copper-catalyzed chemical vapor deposition. *Carbon*, **2012**, 50, 3682-3687	10.4	108
199	Nanomaterials based on carbon and Ti(IV) oxides: some aspects of their electrochemistry. *International Journal of Nanotechnology*, **2012**, 9, 652	1.5	5
198	Raman 2D-band splitting in graphene: theory and experiment. *ACS Nano*, **2011**, 5, 2231-9	16.7	228
197	Oxygen-Isotope Exchange between CO2 and Solid Ti18O2. *Journal of Physical Chemistry C*, **2011**, 115, 11156-11162	3.8	31
196	Oxygen-isotope labeled titania: Ti(18)O2. *Physical Chemistry Chemical Physics*, **2011**, 13, 11583-6	3.6	37
195	Graphene nanoplatelets outperforming platinum as the electrocatalyst in co-bipyridine-mediated dye-sensitized solar cells. *Nano Letters*, **2011**, 11, 5501-6	11.5	340
194	Raman spectroscopy and in situ Raman spectroelectrochemistry of bilayer □□C/□□C graphene. *Nano Letters*, **2011**, 11, 1957-63	11.5	97
193	Graphene nanoplatelet cathode for Co(III)/(II) mediated dye-sensitized solar cells. *ACS Nano*, **2011**, 5, 9171-8	16.7	254
192	Optically transparent cathode for dye-sensitized solar cells based on graphene nanoplatelets. *ACS Nano*, **2011**, 5, 165-72	16.7	476
191	Spectroelectrochemistry of carbon nanotubes. *ChemPhysChem*, **2011**, 12, 47-55	3.2	28
190	Probing charge transfer between shells of double-walled carbon nanotubes sorted by outer-wall electronic type. *Chemistry - A European Journal*, **2011**, 17, 9806-15	4.8	23
189	Nanobubble-assisted formation of carbon nanostructures on basal plane highly ordered pyrolytic graphite exposed to aqueous media. *Nanotechnology*, **2010**, 21, 095707	3.4	24
188	Organized Mesoporous TiO[sub 2] Films Stabilized by Phosphorus: Application for Dye-Sensitized Solar Cells. *Journal of the Electrochemical Society*, **2010**, 157, H99	3.9	23
187	Search for the form of fullerene C(60) in aqueous medium. *Physical Chemistry Chemical Physics*, **2010**, 12, 14095-101	3.6	28

186	Facile Conversion of Electrospun TiO2 into Titanium Nitride/Oxynitride Fibers. *Chemistry of Materials*, **2010**, 22, 4045-4055	9.6	94
185	Polycrystalline TiO[sub 2] Anatase with a Large Proportion of Crystal Facets (001): Lithium Insertion Electrochemistry. *Journal of the Electrochemical Society*, **2010**, 157, A1108	3.9	41
184	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	3.8	9
183	Tuning of sorted double-walled carbon nanotubes by electrochemical charging. *ACS Nano*, **2010**, 4, 459-68	10.7	31
182	The influence of strong electron and hole doping on the Raman intensity of chemical vapor-deposition graphene. *ACS Nano*, **2010**, 4, 6055-63	16.7	211
181	Defects in individual semiconducting single wall carbon nanotubes: Raman spectroscopic and in situ Raman spectroelectrochemical study. *Nano Letters*, **2010**, 10, 4619-26	11.5	63
180	Sexithiophene encapsulated in a single-walled carbon nanotube: an in situ Raman spectroelectrochemical study of a peapod structure. *Chemistry - A European Journal*, **2010**, 16, 11753-9	4.8	36
179	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	8.9	64
178	The influence of doping on the Raman intensity of the D band in single walled carbon nanotubes. *Carbon*, **2010**, 48, 832-838	10.4	25
177	L□lichkeitsuntersuchung im System FeHPO3□H3PO3□H2O bei 25□C. *Zeitschrift F□r Chemie*, **2010**, 18, 78-79		3
176	Evaluation of defect concentration in doped SWCNT. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2797-2800	1.3	3
175	Electrochemical Properties of the Supramolecular Assembly of Ruthenium(II)-bipyridine Complex with Single-Walled Carbon Nanotubes. *Journal of the Electrochemical Society*, **2009**, 156, K44	3.9	5
174	Carbon nanotube electrodes for hot-wire electrochemistry. *ChemPhysChem*, **2009**, 10, 559-63	3.2	13
173	The reaction of lithium metal vapor with single walled carbon nanotubes of large diameters. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2428-2431	1.3	1
172	Photoluminescence of nanoporous silicon grains in TiO2 matrices. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 1713-1716		1
171	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	8.6	16
170	Molecular wiring of LiMnPO4 (olivine) by ruthenium(II)-bipyridine complexes. *Electrochemistry Communications*, **2009**, 11, 2137-2140	5.1	2
169	Supramolecular Assembly of Single-Walled Carbon Nanotubes with a Ruthenium(II)□Bipyridine Complex: An in Situ Raman Spectroelectrochemical Study. *Journal of Physical Chemistry C*, **2009**, 113, 2611-2617	3.8	7

168	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	3.6	12
167	Selective etching of thin single-walled carbon nanotubes. *Journal of the American Chemical Society*, **2009**, 131, 4529-34	16.4	18
166	Electrochemical charging of individual single-walled carbon nanotubes. *ACS Nano*, **2009**, 3, 2320-8	16.7	49
165	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	3.8	19
164	Large Variety of Behaviors for the Raman G? 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	3.8	14
163	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	3.5	9
162	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	3.8	17
161	Novel Synthesis of the TiO2(B) Multilayer Templated Films. *Chemistry of Materials*, **2009**, 21, 1457-1464	9.6	66
160	Rotating cell for in situ Raman spectroelectrochemical studies of photosensitive redox systems. *Analytical Chemistry*, **2009**, 81, 2017-21	7.8	10
159	Self-assemblies of cationic porphyrins with functionalized water-soluble single-walled carbon nanotubes. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 5795-802	1.3	8
158	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	3.8	24
157	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	3.8	27
156	Probing high-pressure properties of single-wall carbon nanotubes through fullerene encapsulation. *Physical Review B*, **2008**, 77,	3.3	85
155	Development of the tangential mode in the Raman spectra of SWCNT bundles during electrochemical charging. *Nano Letters*, **2008**, 8, 1257-64	11.5	57
154	Molecular Wiring of LiFePO4 (Olivine). *Chemistry of Materials*, **2008**, 20, 3163-3168	9.6	7
153	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	3.8	22
152	Competition between the spring force constant and the phonon energy renormalization in electrochemically doped semiconducting single-walled carbon nanotubes. *Nano Letters*, **2008**, 8, 3532-7	11.5	36
151	Multilayer Films from Templated TiO2 and Structural Changes during their Thermal Treatment. *Chemistry of Materials*, **2008**, 20, 2985-2993	9.6	59

150	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	3.8	13
149	In situ optical spectroelectrochemistry of single-walled carbon nanotube thin films. *Journal of Solid State Electrochemistry*, **2008**, 12, 1279-1284	2.6	10
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