

Ladislav Kavan

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16,496
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#	Paper	IF	Citations
3 ¹¹	Electrochemical and Photoelectrochemical Investigation of Single-Crystal Anatase. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6716-6723	16.4	1182
3 ¹⁰	Organized mesoporous TiO ₂ films exhibiting greatly enhanced performance in dye-sensitized solar cells. <i>Nano Letters</i> , 2005 , 5, 1789-92	11.5	497
3 ⁰⁹	Optically transparent cathode for dye-sensitized solar cells based on graphene nanoplatelets. <i>ACS Nano</i> , 2011 , 5, 165-72	16.7	476
3 ⁰⁸	Pseudocapacitive Lithium Storage in TiO ₂ (B). <i>Chemistry of Materials</i> , 2005 , 17, 1248-1255	9.6	428
3 ⁰⁷	Rocking Chair Lithium Battery Based on Nanocrystalline TiO ₂ (Anatase). <i>Journal of the Electrochemical Society</i> , 1995 , 142, L142-L144	3.9	393
3 ⁰⁶	Highly efficient semiconducting TiO ₂ photoelectrodes prepared by aerosol pyrolysis. <i>Electrochimica Acta</i> , 1995 , 40, 643-652	6.7	387
3 ⁰⁵	Lithium Storage in Nanostructured TiO ₂ Made by Hydrothermal Growth. <i>Chemistry of Materials</i> , 2004 , 16, 477-485	9.6	385
3 ⁰⁴	Nanocrystalline TiO ₂ (Anatase) Electrodes: Surface Morphology, Adsorption, and Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 394-400	3.9	344
3 ⁰³	Highly efficient sensitization of titanium dioxide. <i>Journal of the American Chemical Society</i> , 1985 , 107, 2988-2990	16.4	343
3 ⁰²	Graphene nanoplatelets outperforming platinum as the electrocatalyst in co-bipyridine-mediated dye-sensitized solar cells. <i>Nano Letters</i> , 2011 , 11, 5501-6	11.5	340
3 ⁰¹	Metal free sensitizer and catalyst for dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3439	35.4	326
3 ⁰⁰	Raman spectra of titanium dioxide (anatase, rutile) with identified oxygen isotopes (16, 17, 18). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14567-72	3.6	322
2 ⁹⁹	Li Insertion into Li ₄ Ti ₅ O ₁₂ (Spinel). <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1000	3.9	257
2 ⁹⁸	Preparation of TiO ₂ (anatase) films on electrodes by anodic oxidative hydrolysis of TiCl ₃ . <i>Journal of Electroanalytical Chemistry</i> , 1993 , 346, 291-307	4.1	255
2 ⁹⁷	Graphene nanoplatelet cathode for Co(III)/(II) mediated dye-sensitized solar cells. <i>ACS Nano</i> , 2011 , 5, 9171-8	16.7	254
2 ⁹⁶	Raman 2D-band splitting in graphene: theory and experiment. <i>ACS Nano</i> , 2011 , 5, 2231-9	16.7	228
2 ⁹⁵	The influence of strong electron and hole doping on the Raman intensity of chemical vapor-deposition graphene. <i>ACS Nano</i> , 2010 , 4, 6055-63	16.7	211

294	Surfactant-Templated TiO ₂ (Anatase): Characteristic Features of Lithium Insertion Electrochemistry in Organized Nanostructures. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 12012-12020	3.4	209
293	Electrochemical Tuning of Electronic Structure of Single-Walled Carbon Nanotubes: In-situ Raman and Vis-NIR Study. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10764-10771	3.4	209
292	Facile Synthesis of Nanocrystalline Li ₄ Ti ₅ O ₁₂ (Spinel) Exhibiting Fast Li Insertion. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, A39		204
291	Orientation Dependence of Charge-Transfer Processes on TiO ₂ (Anatase) Single Crystals. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 1467	3.9	199
290	Study of nanocrystalline TiO ₂ (anatase) electrode in the accumulation regime. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 394, 93-102	4.1	192
289	Electrochemical Characterization of TiO ₂ Blocking Layers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16408-16418	3.8	181
288	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15087-15096	16.4	174
287	Quantum size effects in nanocrystalline semiconducting titania layers prepared by anodic oxidative hydrolysis of titanium trichloride. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 9493-9498		152
286	Inverted Solution Processable OLEDs Using a Metal Oxide as an Electron Injection Contact.. <i>Advanced Functional Materials</i> , 2008 , 18, 145-150	15.6	151
285	Spectroelectrochemistry of carbon nanostructures. <i>ChemPhysChem</i> , 2007 , 8, 974-98	3.2	147
284	Interaction between graphene and copper substrate: The role of lattice orientation. <i>Carbon</i> , 2014 , 68, 440-451	10.4	145
283	Electrochemical Carbon. <i>Chemical Reviews</i> , 1997 , 97, 3061-3082	68.1	142
282	Reductive Preparation of Carbyne with High Yield. An in Situ Raman Scattering Study. <i>Macromolecules</i> , 1995 , 28, 344-353	5.5	119
281	Electrochemistry of titanium dioxide: some aspects and highlights. <i>Chemical Record</i> , 2012 , 12, 131-42	6.6	115
280	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 1779-1787	35.4	112
279	The control of graphene double-layer formation in copper-catalyzed chemical vapor deposition. <i>Carbon</i> , 2012 , 50, 3682-3687	10.4	108
278	Optically transparent cathode for Co(III/II) mediated dye-sensitized solar cells based on graphene oxide. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 6999-7006	9.5	105
277	Raman spectroscopy and in situ Raman spectroelectrochemistry of bilayer C/C graphene. <i>Nano Letters</i> , 2011 , 11, 1957-63	11.5	97

276	In situ Raman and Vis-NIR spectroelectrochemistry at single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2000 , 328, 363-368	2.5	96
275	Mesoporous thin film TiO ₂ electrodes. <i>Microporous and Mesoporous Materials</i> , 2001 , 44-45, 653-659	5.3	95
274	Lithium Insertion into Mesoscopic and Single-Crystal TiO ₂ (Rutile) Electrodes. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 1375-1379	3.9	95
273	Facile Conversion of Electrospun TiO ₂ into Titanium Nitride/Oxynitride Fibers. <i>Chemistry of Materials</i> , 2010 , 22, 4045-4055	9.6	94
272	Charge transfer reductive doping of single crystal TiO ₂ anatase. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 566, 73-83	4.1	88
271	Probing high-pressure properties of single-wall carbon nanotubes through fullerene encapsulation. <i>Physical Review B</i> , 2008 , 77,	3.3	85
270	Ultrathin Buffer Layers of SnO ₂ by Atomic Layer Deposition: Perfect Blocking Function and Thermal Stability. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 342-350	3.8	84
269	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. <i>Electrochimica Acta</i> , 2014 , 128, 349-359	6.7	84
268	Novel 2 V rocking-chair lithium battery based on nano-crystalline titanium dioxide. <i>Journal of Power Sources</i> , 1997 , 68, 720-722	8.9	83
267	Insight into boron-doped diamond Raman spectra characteristic features. <i>Carbon</i> , 2017 , 115, 279-284	10.4	80
266	Electrochemistry and dye-sensitized solar cells. <i>Current Opinion in Electrochemistry</i> , 2017 , 2, 88-96	7.2	77
265	Lithium Insertion into Zirconia-Stabilized Mesoscopic TiO ₂ (Anatase). <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2897	3.9	73
264	Capacitive contribution to Li-storage in TiO ₂ (B) and TiO ₂ (anatase). <i>Journal of Power Sources</i> , 2014 , 246, 103-109	8.9	68
263	Electrochemical carbyne from perfluorinated hydrocarbons: Synthesis and stability studied by Raman scattering. <i>Carbon</i> , 1995 , 33, 1321-1329	10.4	67
262	Novel Synthesis of the TiO ₂ (B) Multilayer Templated Films. <i>Chemistry of Materials</i> , 2009 , 21, 1457-1464	9.6	66
261	Electrochemical Tuning of Electronic Structure of C ₆₀ and C ₇₀ Fullerene Peapods: In Situ Visible Near-Infrared and Raman Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7666-7675	3.4	66
260	Single Layer Molybdenum Disulfide under Direct Out-of-Plane Compression: Low-Stress Band-Gap Engineering. <i>Nano Letters</i> , 2015 , 15, 3139-46	11.5	64
259	Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO ₂ (anatase) and phosphate olivines (LiMnPO ₄ ; LiFePO ₄) for electrochemical Li-storage. <i>Journal of Power Sources</i> , 2010 , 195, 5360-5369	8.9	64

258	Defects in individual semiconducting single wall carbon nanotubes: Raman spectroscopic and in situ Raman spectroelectrochemical study. <i>Nano Letters</i> , 2010 , 10, 4619-26	11.5	63
257	Lithium Insertion into Anatase Inverse Opal. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1301	3.9	62
256	Voltage enhancement in dye-sensitized solar cell using (001)-oriented anatase TiO ₂ nanosheets. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2993-3001	2.6	61
255	Carbyne forms of carbon: continuation of the story. <i>Carbon</i> , 1994 , 32, 1533-1536	10.4	61
254	Electrochemistry and in situ Raman spectroelectrochemistry of low and high quality boron doped diamond layers in aqueous electrolyte solution. <i>Electrochimica Acta</i> , 2013 , 87, 518-525	6.7	59
253	Multilayer Films from Templated TiO ₂ and Structural Changes during their Thermal Treatment. <i>Chemistry of Materials</i> , 2008 , 20, 2985-2993	9.6	59
252	Phonon and structural changes in deformed Bernal stacked bilayer graphene. <i>Nano Letters</i> , 2012 , 12, 687-93	11.5	58
251	Ionic liquid for in situ Vis/NIR and Raman spectroelectrochemistry: Doping of carbon nanostructures. <i>ChemPhysChem</i> , 2003 , 4, 944-50	3.2	58
250	Development of the tangential mode in the Raman spectra of SWCNT bundles during electrochemical charging. <i>Nano Letters</i> , 2008 , 8, 1257-64	11.5	57
249	In situ Vis/NIR and Raman spectroelectrochemistry at fullerene peapods. <i>Chemical Physics Letters</i> , 2002 , 361, 79-85	2.5	57
248	Electrochemical tuning of electronic structure of carbon nanotubes and fullerene peapods. <i>Carbon</i> , 2004 , 42, 1011-1019	10.4	56
247	Electrochemical doping of chirality-resolved carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19613-9	3.4	55
246	Modeling Ruthenium-Dye-Sensitized TiO ₂ Surfaces Exposing the (001) or (101) Faces: A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18124-18131	3.8	52
245	Electrochemical Properties of Cu(II/I)-Based Redox Mediators for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2017 , 227, 194-202	6.7	51
244	Fabrication of porous boron-doped diamond on SiO ₂ fiber templates. <i>Carbon</i> , 2017 , 114, 457-464	10.4	51
243	Structural parameters controlling the performance of organized mesoporous TiO ₂ films in dye sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2008 , 361, 656-662	2.7	50
242	Electrochemical charging of individual single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 2320-8	16.7	49
241	Water splitting and the band edge positions of TiO ₂ . <i>Electrochimica Acta</i> , 2016 , 199, 27-34	6.7	48

240	Oxidation of Acetonitrile-Based Electrolyte Solutions at High Potentials: An In Situ Fourier Transform Infrared Spectroscopy Study. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 3390-3395	3.9	48
239	Two Positions of Potassium in Chemically Doped C(60) Peapods: An in situ Spectroelectrochemical Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 6275-80	3.4	46
238	Diameter-Selective Electrochemical Doping of HiPco Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 969-972	11.5	45
237	Conductivity of boron-doped polycrystalline diamond films: influence of specific boron defects. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	44
236	Phase-pure nanocrystalline Li ₄ Ti ₅ O ₁₂ for a lithium-ion battery. <i>Journal of Solid State Electrochemistry</i> , 2003 , 8, 2-6	2.6	44
235	Nafion modified TiO ₂ electrodes: photoresponse and sensitization by Ru(II)-bipyridyl complexes. <i>Electrochimica Acta</i> , 1989 , 34, 1327-1334	6.7	44
234	Lithium insertion into TiO ₂ (anatase): electrochemistry, Raman spectroscopy, and isotope labeling. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2297-2306	2.6	43
233	In-Situ Visible-Near-Infrared and Raman Spectroelectrochemistry of Double-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2005 , 15, 418-426	15.6	43
232	Resolving the Controversy about the Band Alignment between Rutile and Anatase: The Role of OH ⁻ /H ⁺ Adsorption. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21952-21958	3.8	42
231	Low-temperature Fabrication of Highly-Efficient, Optically-Transparent (FTO-free) Graphene Cathode for Co-Mediated Dye-Sensitized Solar Cells with Acetonitrile-free Electrolyte Solution. <i>Electrochimica Acta</i> , 2016 , 195, 34-42	6.7	42
230	Cold gas dynamic spraying (CGDS) of TiO ₂ (anatase) powders onto poly(sulfone) substrates: Microstructural characterisation and photocatalytic efficiency. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 187, 285-292	4.7	42
229	Polycrystalline TiO ₂ Anatase with a Large Proportion of Crystal Facets (001): Lithium Insertion Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1108	3.9	41
228	Enhancement of Electrochemical Activity of LiFePO ₄ (olivine) by Amphiphilic Ru-bipyridine Complex Anchored to a Carbon Nanotube. <i>Chemistry of Materials</i> , 2007 , 19, 4716-4721	9.6	39
227	Electrochemical tuning of high energy phonon branches of double wall carbon nanotubes. <i>Carbon</i> , 2004 , 42, 2915-2920	10.4	38
226	Surface preparation of TiO ₂ anatase (101): Pitfalls and how to avoid them. <i>Surface Science</i> , 2014 , 626, 61-67	1.8	37
225	Oxygen-isotope labeled titania: Ti(18)O ₂ . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11583-6	3.6	37
224	Interaction of nanodiamond with in situ generated sp ² -carbon chains probed by Raman spectroscopy. <i>Carbon</i> , 2006 , 44, 3113-3116	10.4	37
223	Charge transfer between two immiscible electrolyte solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 145, 213-218		37

222	Novel highly active Pt/graphene catalyst for cathodes of Cu(II/I)-mediated dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2017 , 251, 167-175	6.7	36
221	Sexithiophene encapsulated in a single-walled carbon nanotube: an in situ Raman spectroelectrochemical study of a peapod structure. <i>Chemistry - A European Journal</i> , 2010 , 16, 11753-9	4.8	36
220	Competition between the spring force constant and the phonon energy renormalization in electrochemically doped semiconducting single-walled carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 3532-7	11.5	36
219	Mesoporous electrode material from alumina-stabilized anatase TiO ₂ for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 138-145	2.6	36
218	Time-dependent electrical resistivity of carbon. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 5127-5134		35
217	Sol-gel titanium dioxide blocking layers for dye-sensitized solar cells: electrochemical characterization. <i>ChemPhysChem</i> , 2014 , 15, 1056-61	3.2	34
216	Carbon isotope labelling in graphene research. <i>Nanoscale</i> , 2014 , 6, 6363-70	7.7	34
215	Lithium insertion into titanium dioxide (anatase) electrodes: microstructure and electrolyte effects. <i>Journal of Solid State Electrochemistry</i> , 2001 , 5, 196-204	2.6	34
214	Effects of heat treatment on Raman spectra of two-layer 12C/13C graphene. <i>Chemistry - A European Journal</i> , 2012 , 18, 13877-84	4.8	32
213	An in situ Raman spectroelectrochemical study of the controlled doping of single walled carbon nanotubes in a conducting polymer matrix. <i>Carbon</i> , 2007 , 45, 1463-1470	10.4	32
212	Photochemistry and Gas-Phase FTIR Spectroscopy of Formic Acid Interaction with Anatase TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11200-11205	3.8	31
211	Oxygen-Isotope Exchange between CO ₂ and Solid TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11156-11162	3.8	31
210	Tuning of sorted double-walled carbon nanotubes by electrochemical charging. <i>ACS Nano</i> , 2010 , 4, 459-66	6.7	31
209	Strain Assessment in Graphene Through the Raman 2D ² Mode. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25651-25656	3.8	30
208	Analysis of heavily boron-doped diamond Raman spectrum. <i>Diamond and Related Materials</i> , 2018 , 88, 163-166	3.5	30
207	Alternative bases to 4-tert-butylpyridine for dye-sensitized solar cells employing copper redox mediator. <i>Electrochimica Acta</i> , 2018 , 265, 194-201	6.7	29
206	Electrochemical doping of double-walled carbon nanotubes: an in situ Raman spectroelectrochemical study. <i>ChemPhysChem</i> , 2004 , 5, 274-7	3.2	29
205	Carbonaceous materials from end-capped alkynes. <i>Carbon</i> , 2002 , 40, 345-349	10.4	29

204	Spectroelectrochemistry of carbon nanotubes. <i>ChemPhysChem</i> , 2011 , 12, 47-55	3.2	28
203	Search for the form of fullerene C(60) in aqueous medium. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14095-101	3.6	28
202	Molecular Design of Efficient Organic D-A- π A Dye Featuring Triphenylamine as Donor Fragment for Application in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 494-502	8.3	28
201	Chemical States of Electrochemically Doped Single Wall Carbon Nanotubes As Probed by Raman Spectroelectrochemistry and ex Situ X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13856-13861	3.8	27
200	Perfluoro anion-exchange polymeric films on glassy carbon electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990 , 280, 313-325		27
199	Boron-doped Diamond Electrodes: Electrochemical, Atomic Force Microscopy and Raman Study towards Corrosion-modifications at Nanoscale. <i>Electrochimica Acta</i> , 2015 , 179, 626-636	6.7	26
198	EPR study of ¹⁷ O-enriched titania nanopowders under UV irradiation. <i>Catalysis Today</i> , 2014 , 230, 112-118	5.3	26
197	Exploiting nanocarbons in dye-sensitized solar cells. <i>Topics in Current Chemistry</i> , 2014 , 348, 53-93		26
196	Polymerisation of 1-iodohexa-1,3,5-triyne and hexa-1,3,5-triyne: a new synthesis of carbon nanotubes at low temperatures. <i>Chemical Communications</i> , 2000 , 737-738	5.8	26
195	Dye-sensitization of boron-doped diamond foam: champion photoelectrochemical performance of diamond electrodes under solar light illumination. <i>RSC Advances</i> , 2015 , 5, 81069-81077	3.7	25
194	The influence of doping on the Raman intensity of the D band in single walled carbon nanotubes. <i>Carbon</i> , 2010 , 48, 832-838	10.4	25
193	Electrochemical, IR and XPS study of Nafion films prepared from hexamethylphosphortriamide solution. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986 , 199, 81-92		25
192	Application of graphene-based nanostructures in dye-sensitized solar cells. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2643-2648	1.3	24
191	Nanobubble-assisted formation of carbon nanostructures on basal plane highly ordered pyrolytic graphite exposed to aqueous media. <i>Nanotechnology</i> , 2010 , 21, 095707	3.4	24
190	Changes in the Electronic States of Single-Walled Carbon Nanotubes as Followed by a Raman Spectroelectrochemical Analysis of the Radial Breathing Mode. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16759-16763	3.8	24
189	Conduction band engineering in semiconducting oxides (TiO ₂ , SnO ₂): Applications in perovskite photovoltaics and beyond. <i>Catalysis Today</i> , 2019 , 328, 50-56	5.3	24
188	Work Function of TiO ₂ (Anatase, Rutile, and Brookite) Single Crystals: Effects of the Environment. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1902-1912	3.8	24
187	Electrochemical Doping of Compact TiO ₂ Thin Layers. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25970-25977	3.5	23

186	Probing charge transfer between shells of double-walled carbon nanotubes sorted by outer-wall electronic type. <i>Chemistry - A European Journal</i> , 2011 , 17, 9806-15	4.8	23
185	Organized Mesoporous TiO ₂ Films Stabilized by Phosphorus: Application for Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H99	3.9	23
184	Influence of an Extended Fullerene Cage: Study of Chemical and Electrochemical Doping of C70 Peapods by in Situ Raman Spectroelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1079-1085	3.8	23
183	On the stability of polyynes. <i>Chemical Physics</i> , 1992 , 168, 249-258	2.3	23
182	Electrochemical characterization of porous boron-doped diamond prepared using SiO ₂ fiber template. <i>Diamond and Related Materials</i> , 2018 , 87, 61-69	3.5	23
181	Electron-Selective Layers for Dye-Sensitized Solar Cells Based on TiO ₂ and SnO ₂ . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6512-6521	3.8	22
180	In Situ Raman Spectroelectrochemistry of Single-Walled Carbon Nanotubes: Investigation of Materials Enriched with (6,5) Tubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14179-14187	3.8	22
179	In situ EPR spectroelectrochemistry of single-walled carbon nanotubes and C60 fullerene peapods. <i>Carbon</i> , 2006 , 44, 2147-2154	10.4	22
178	Transformation of fullerene peapods to double-walled carbon nanotubes induced by UV radiation. <i>Carbon</i> , 2005 , 43, 1610-1616	10.4	22
177	Selectivity of Photoelectrochemical Water Splitting on TiO ₂ Anatase Single Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10857-10867	3.8	21
176	Visible-light sensitization of boron-doped nanocrystalline diamond through non-covalent surface modification. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1165-72	3.6	21
175	The intermediate frequency modes of single- and double-walled carbon nanotubes: a Raman spectroscopic and in situ Raman spectroelectrochemical study. <i>Chemistry - A European Journal</i> , 2006 , 12, 4451-7	4.8	21
174	Anodic oxidation of dimethyl sulfoxide based electrolyte solutions: An in situ FTIR study. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 523-527	2.6	21
173	The role of ion transport in the electrochemical corrosion of fluoropolymers. Preparation and properties of n-doped polymeric carbon with mixed ion/electron conductivity. <i>Solid State Ionics</i> , 1990 , 38, 109-118	3.3	21
172	Diamond functionalization with light-harvesting molecular wires: improved surface coverage by optimized Suzuki cross-coupling conditions. <i>RSC Advances</i> , 2014 , 4, 42044-42053	3.7	20
171	ZnO/nanocarbon liquid hybrid films: electrochemical synthesis and application in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10173	13	20
170	In situ Raman spectroelectrochemistry of graphene oxide. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2662-2667	1.3	20
169	The change of the state of an endohedral fullerene by encapsulation into SWCNT: a Raman spectroelectrochemical study of Dy ₃ N@C ₈₀ peapods. <i>Chemistry - A European Journal</i> , 2007 , 13, 8811-7	4.8	20

168	Electrochemical and gas-phase photocatalytic performance of nanostructured TiO ₂ (B) prepared by novel synthetic route. <i>Progress in Solid State Chemistry</i> , 2005 , 33, 253-261	8	20
167	Electrochemical impedance spectroscopy of polycrystalline boron doped diamond layers with hydrogen and oxygen terminated surface. <i>Diamond and Related Materials</i> , 2015 , 55, 70-76	3.5	19
166	Efficiency and stability of spectral sensitization of boron-doped-diamond electrodes through covalent anchoring of a donor-acceptor organic chromophore (P1). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16444-50	3.6	19
165	Synthesis of nanostructured TiO ₂ (anatase) and TiO ₂ (B) in ionic liquids. <i>Catalysis Today</i> , 2014 , 230, 85-90	5.3	19
164	Influence of the Resonant Electronic Transition on the Intensity of the Raman Radial Breathing Mode of Single Walled Carbon Nanotubes during Electrochemical Charging. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16408-16413	3.8	19
163	Insertion of lithium into mesoscopic anatase electrodes in an electrochemical and in-situ EQCM study. <i>Journal of Solid State Electrochemistry</i> , 1997 , 1, 83-87	2.6	19
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