

# Patents Listed by Inventor

Active Records Only

Patent Inventor(s): Gogotsi, Yury  
 Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

Inventor: <b>Gogotsi, Yury</b>									
<b>Tech ID:</b>	<b>02-0451D</b>	Methods for Bulk Synthesis of Single-Wall Carbon Nanotubes					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Methods for Bulk Synthesis of Single-Wall Carbon Nanotubes</b>									
Gogotsi, Yury (PI)									
Utility									
On Hold- Being Reviewed									
US									
11/571,104									
6/20/2007									
7,744,843									
6/29/2010									
104889.002005									
<b>Tech ID:</b>	<b>03-0501D</b>	Nanoporous carbide derived carbon with tunable pore size					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Nanoporous carbide derived carbon with tunable pore size</b>									
Barsoum, Michel W. (PI)									
Gogotsi, Yury									
Nationalized PCT									
Issued									
US									
10/561,768									
3/23/2006									
8,137,650									
3/20/2012									
104889.002039									
<b>Tech ID:</b>	<b>04-0580D</b>	Functional nanoparticle filled carbon nanotubes and methods for their production					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Functional Nanoparticle Filled Carbon Nanotubes and Methods for Their Production</b>									
Friedman, Gennady (Gary)									
Gogotsi, Yury									
Korneva, Guzeliya									
Nationalized PCT									
Issued									
US									
11/910,689									
5/6/2008									
8,119,021									
2/21/2012									
104889.000185									
<b>Tech ID:</b>	<b>06-0721D</b>	Method for making carbon nanotubes with embedded nanoparticles					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Method for Making Carbon Nanotubes with Embedded Nanoparticles</b>									
Gogotsi, Yury (PI)									
Mattia, Davide									
Utility									
Issued									
US									
12/398,315									
3/5/2009									
8,038,926									
10/18/2011									
104889.000284									
<b>Tech ID:</b>	<b>07-0864D</b>	Supercapacitor compositions, devices and related methods					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Supercapacitor compositions, devices and related methods</b>									
Largeot, Celine (PI)									
Gogotsi, Yury									
Simon, Patrice									
Portet-Herriot, Cristelle									
Chmiola, John									
Taberna, Pierre-Louis									
Nationalized PCT									
Issued									
US									
12/864,774									
7/27/2010									
8,498,097									
7/30/2013									
104889.002088									
<b>Tech ID:</b>	<b>08-0880D</b>	Nano-discharges in liquids and their possible applications					<b>Manager:</b> Melishchuk, Alexey		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	

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Patent Inventor(s): Gogotsi, Yury  
Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

Inventor: <b>Gogotsi, Yury (continued)</b>								
<b>Tech ID: 08-0880D (continued)</b>		Nano-discharges in liquids and their possible applications					<b>Manager:</b> Melishchuk, Alexey	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Nano Discharges in Liquids</b>								
Fridman, Alexander (PI) Fridman, Gennady (Gary) Gogotsi, Yury Gutsol, Alexander F. Staack, David	Divisional	Filed	US	14/604,918	1/26/2015		N/A	101311.000170
<b>Nano-discharges in liquids</b>								
Fridman, Alexander (PI) Fridman, Gennady (Gary) Gogotsi, Yury Gutsol, Alexander F. Staack, David	Nationalized PCT	Issued	US	13/055,998	1/26/2011	8,968,286	3/3/2015	101311.000124
<b>Tech ID: 08-0999D</b>		Nanotube-based sensors and probes					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Nanotube-based sensors and probes</b>								
Bao, Haim H. (PI) Kim, Byong Man Gogotsi, Yury Riegelman, Michael	Utility	Issued	US	11/177,111	7/8/2005	7,964,159	6/21/2011	UPNA-0038
<b>Tech ID: 09-1091D</b>		Functionalized nanodiamond reinforced biopolymers and uses for microporous surgical fixation devices					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Functionalized nanodiamond reinforced biopolymers</b>								
Zhou, Gongyao (Jack) (PI) Gogotsi, Yury Lelkes, Peter I. Mochalin, Vadym	Nationalized PCT	Issued	US	13/498,436	3/27/2012	9,186,190	11/17/2015	046528-6015US1
<b>Tech ID: 09-1135D</b>		MAX Phase Nanolaminates as Anodes for Li-ion Batteries					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Compositions Comprising Free-Standing Two-Dimensional Nanocrystal</b>								
Barsoum, Michel W. (PI) Gogotsi, Yury Abdelmalak, Michael Naguib Mashtalir, Olha	Nationalized PCT	Filed	EP	12803351.1	1/21/2014		N/A	104889.000515

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Patent Inventor(s): Gogotsi, Yury  
Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

Inventor: <b>Gogotsi, Yury (continued)</b>									
<b>Tech ID:</b>	<b>10-1226D</b>	Ultrahigh-Power Micrometre-sized supercapacitors based on onion-like carbon					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Applications for Alliform Carbon</b>									
Gogotsi, Yury (PI) Mochalin, Vadym Simon, Patrice Taberna, Pierre-Louis McDonough, John (Jake) K.									
<b>Tech ID:</b>	<b>10-1262D</b>	High energy-density electrochemical flow capacitor					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Electrochemical Flow Capacitors</b>									
Gogotsi, Yury (PI) Presser, Volker Kumbur, Emin Caglan									
<b>Tech ID:</b>	<b>11-1272D</b>	De-Agglomeration and Separation of Nanoparticles in Powders with Dry Media-Assisted Milling					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Disaggregation of Aggregated Nanodiamond Clusters</b>									
Gogotsi, Yury (PI) Mochalin, Vadym									
<b>Tech ID:</b>	<b>12-1457D</b>	Intercalation compounds of 2-dimensional carbides (Mxenes)					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Compositions Comprising Free Standing Two Dimensional Nanocrystal</b>									
Abdelmalak, Michael Naguib Mashtalir, Olha Barsoum, Michel W. (PI) Gogotsi, Yury (PI)									
<b>Compositions Comprising Free-Standing Two-Dimensional Nanocrystals</b>									
Barsoum, Michel W. (PI) Gogotsi, Yury Abdelmalak, Michael Naguib Mashtalir, Olha									

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Patent Inventor(s): Gogotsi, Yury  
Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

Inventor: <b>Gogotsi, Yury (continued)</b>									
<b>Tech ID: 12-1457D (continued)</b>		Intercalation compounds of 2-dimensional carbides (Mxenes)					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Compositions Comprising Free-Standing Two-Dimensional Nanocrystals</b>									
Barsoum, Michel W. (PI) Gogotsi, Yury Abdelmalak, Michael Naguib Mashtalir, Olha	Continuation	Issued	US	14/575,230	12/18/2014	9,415,570	8/16/2016	104889.000659	
<b>Compositions Comprising Free-Standing Two-Dimensional Nanocrystals</b>									
Barsoum, Michel W. (PI) Gogotsi, Yury Abdelmalak, Michael Naguib Mashtalir, Olha	Continuation	Issued	US	14/881,261	10/13/2015	9,416,011	8/16/2016	104889.000694	
<b>Compositions Comprising Free-Standing Two-Dimensional Nanocrystals</b>									
Barsoum, Michel W. (PI) Gogotsi, Yury Abdelmalak, Michael Naguib Mashtalir, Olha	Continuation	Issued	US	15/205,118	7/8/2016	9,837,182	12/5/2017	104889.000709	
<b>Compositions Comprising Free-Standing Two-Dimensional Nanocrystals</b>									
Barsoum, Michel W. (PI) Gogotsi, Yury Abdelmalak, Michael Naguib Mashtalir, Olha	Continuation	Filed	US	15/795,727	7/8/2016		N/A	104889.000746	
<b>Tech ID: 13-1586D</b>		Knitted Supercapacitors and Heated Fabrics					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>Knitted Supercapacitors and Heated Fabrics</b>									
Jost, Kristy Dion, Genevieve Gogotsi, Yury (PI)	Nationalized PCT	Filed	US	14/906,915	1/22/2016		N/A	104889.000696	
<b>Tech ID: 14-1644D/P</b>		Microfluidic perfusion based single cell-scale respirometric analyzer					<b>Manager:</b> Melishchuk, Alexey		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>A Method and Apparatus for Measuring Biological Activity With Single Cell Resolution</b>									
Gao, Yang Orynbayeva, Zulfiya Friedman, Gennady (Gary) Gogotsi, Yury (PI)	Nationalized PCT	Filed	US	15/304,205	10/14/2016		N/A	DREX-1177US	

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Patent Inventor(s): Gogotsi, Yury  
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**Inventor:** Gogotsi, Yury (continued)

<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Tech ID: 14-1645D</b>			Wearable Power harvesting system			<b>Manager:</b> Melishchuk, Alexey		
<b>Wearable Power harvesting system</b>								
Fisher, Jonathan Cook, Andrea Watt, Stephen J. Le, Michael Jost, Kristy Patron, Damiano Dandekar, Kapil R. Gogotsi, Yury Dion, Genevieve (PI)	Utility	Filed	US	14/643,715	3/20/2015		N/A	104889.000667
<b>Tech ID: 14-1678D</b>			Method and Device to Remove Ions from an Electrolytic Media, such as Water Desalination, using Suspension of Divided Materials in a Flow Capacitor			<b>Manager:</b> Poppert, Elizabeth N.		
<b>Method and device to remove ions from an electrolytic media, such as water desalination, using suspension of divided materials in a flow capacitor</b>								
Gogotsi, Yury (PI) Simon, Patrice Taberna, Pierre-Louis Daffos, Barbara Iwama, Etsuro Tzedakis, Theodore Hatzell, Kelsey B. Gogotsi, Oleksiy	European	Filed	EP	13305761.2	6/6/2013		N/A	
<b>Tech ID: 14-1702</b>			MAX Phase Etching with HCl+LiF to Yield Conductive MXene 'Clay' Material			<b>Manager:</b> Poppert, Elizabeth N.		
<b>Physical Forms of MXene Materials Exhibiting Novel Electrical and optical Characteristics</b>								
Gogotsi, Yury Ghidiu, Michael J. Barsoum, Michel W. (PI) Fafarman, Aaron Thomas. Dillon, Andrew DeVries.	Nationalized PCT	Filed	US	15/513,740	3/23/2017		N/A	104889.000726

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Patent Inventor(s): Gogotsi, Yury  
 Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

Inventor: <b>Gogotsi, Yury (continued)</b>								
<b>Tech ID: 14-1702 (continued)</b>		MAX Phase Etching with HCl+LiF to Yield Conductive MXene 'Clay' Material					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Physical Forms of MXene Materials Exhibiting Novel Electrical and optical Characteristics</b>								
Gogotsi, Yury Ghidiu, Michael J. Barsoum, Michel W. (PI) Fafarman, Aaron Thomas. Dillon, Andrew DeVries.	Nationalized PCT	Filed	EP	15843168.4	4/10/2017		N/A	104889.000725
<b>Physical Forms of MXene Materials Exhibiting Novel Electrical and optical Characteristics</b>								
Gogotsi, Yury Ghidiu, Michael J. Barsoum, Michel W. (PI) Fafarman, Aaron Thomas. Dillon, Andrew DeVries.	Nationalized PCT	Filed	CN	201580058706.6	4/25/2017		N/A	104889.000724
<b>Tech ID: 14-1729</b>		Desalination and Ion Separation Membranes Based on Two-dimensional Metal Carbides (MXenes)					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Two-Dimensional Metal Carbide Desalination Membrane</b>								
Mahmoud, Khaled A. (PI) Ren, Chang E. Gogotsi, Yury	Nationalized PCT	Filed	US	15/527,704	5/17/2017		N/A	33005.04
<b>Tech ID: 15-1778</b>		Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes)					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Two-Dimensional, Ordered, Double Transition Metals Carbides Having a Nominal Unit Cell Composition M'2M''nXn+1</b>								
Anasori, Babak Gogotsi, Yury Barsoum, Michel W. (PI)	Nationalized PCT	Filed	US	15/567,777	10/19/2017		N/A	104889.000738
<b>TWO-DIMENSIONAL, ORDERED, DOUBLE TRANSITION METALS CARBIDES HAVING A NOMINAL UNIT CELL COMPOSITION M'2M''nXn+1</b>								
Anasori, Babak Gogotsi, Yury Barsoum, Michel W. (PI)	Nationalized PCT	Filed	CN	201680014821.8	9/8/2017		N/A	104889.000737
<b>Two-Dimensional, Ordered, Double Transition Metals Carbides Having a Nominal Unit Cell Composition M'2M''nXn+1</b>								
Anasori, Babak Gogotsi, Yury Barsoum, Michel W. (PI)	PCT	Filed	WO	PCT/US2016/02835 4	4/20/2016		N/A	104889.000698

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Patent Inventor(s): Gogotsi, Yury  
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**Inventor:** Gogotsi, Yury (continued)

<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Tech ID: 15-1823</b> Open Surface Graphitic Materials for Adsorption of Cytokines from Blood						<b>Manager:</b> Poppert, Elizabeth N.		
<b>Open Surface Graphitic Materials for Adsorption of Cytokines from Blood</b>								
Pescatore, Nicholas Anthony. Gogotsi, Yury Mochalin, Vadym (PI)	PCT	Filed	WO	PCT/US2017/03463 5	5/26/2017		N/A	104889.000728
<b>Tech ID: 15-1836</b> Flexible and Conductive Waste Tire-Derived Carbon/Polymer Composite Paper as Pseudocapacitive Electrode						<b>Manager:</b> Poppert, Elizabeth N.		
<b>Flexible and Conductive Waste Tire-Derived Carbon/Polymer Composite Paper as Pseudocapacitive Electrode</b>								
Gogotsi, Yury (PI) Boota, Muhammad Paranthaman, Mariappan Naskar, Amit	Utility	Filed	US	14/852,073	9/11/2015		N/A	6321-466
<b>Flexible and Conductive Waste Tire-Derived Carbon/Polymer Composite Paper as Pseudocapacitive Electrode</b>								
Gogotsi, Yury (PI) Boota, Muhammad Paranthaman, Mariappan Naskar, Amit	Divisional	Filed	US	15/923,691	3/16/2018		N/A	6321-466-2DIV
<b>Tech ID: 16-1890</b> MXene films and composites for EMI shielding, stealth planes/boats, metamaterials, invisibility cloaks and other related applications						<b>Manager:</b> Poppert, Elizabeth N.		
<b>TWO-DIMENSIONAL METAL CARBIDE, NITRIDE, AND CARBONITRIDE FILMS AND COMPOSITES FOR EMI SHIELDING</b>								
Shahzad, Faisal Hong, Soon Man. Koo, Chong Min. Hatter, Christine B. Alhabeab, Mohamed H. Anasori, Babak Gogotsi, Yury (PI)	PCT	Filed	WO	PCT/US2017/02880 0	4/21/2017		N/A	104889.000723
<b>Tech ID: 16-1905</b> MXene sorbent for removal of small molecules from blood						<b>Manager:</b> Poppert, Elizabeth N.		
<b>MXene sorbent for removal of small molecules from blood</b>								
<u>Patent Title / Inventors</u> <u>Type</u> <u>Status</u> <u>Ctry</u> <u>Serial No.</u> <u>File Date</u> <u>Patent No.</u> <u>Issue Date</u> <u>Legal Ref No.</u>								

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Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

Inventor: <b>Gogotsi, Yury (continued)</b>									
<b>Tech ID:</b>	<b>16-1905 (continued)</b>	MXene sorbent for removal of small molecules from blood					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>MX-NE SORBENT FOR REMOVAL OF SMALL MOLECULES FROM DIALYSATE</b>									
Meng, Fayan Sandeman, Susan Rachel. Mikhailovsky, Sergey Anasori, Babak Gogotsi, Yury (PI)									
	Provisional	Refile	US	62/539,715	8/1/2017		N/A	104889.000734	
<b>Tech ID:</b>	<b>16-1906</b>	MXene films and composites for antenna applications					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>ANTENNAS COMPRISING MX-ENE FILMS AND COMPOSITES</b>									
Anasori, Babak Gogotsi, Yury (PI)									
	PCT	Filed	WO	PCT/US2017/04812 7	8/23/2017		N/A	104889.000729	
<b>Tech ID:</b>	<b>16-1909</b>	Dendrite inhibiting electrolytes comprising nanoparticle additives for secondary lithium batteries					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>ADDITIVES FOR SUPPRESSING DENDRITIC GROWTH IN BATTERIES</b>									
Cheng, Xin-Bing Gogotsi, Yury (PI) Zhao, Meng-Qiang									
	Provisional	Refile	US	62/539,609	8/1/2017		N/A	104889.000735	
<b>Tech ID:</b>	<b>16-1964</b>	Salt-templated synthesis of 2D metal nitrides and carbides					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	
<b>SALT TEMPLATED SYNTHESIS OF TWO-DIMENSIONAL METAL CARBIDES AND NITRIDE COMPOSITIONS</b>									
Zhou, Jun Xiao, Xu Gogotsi, Yury (PI)									
	Provisional	Refile	US	62/595,731	12/7/2017		N/A	104889.000750	
<b>Tech ID:</b>	<b>17-1979</b>	MXene layers as a versatile substrate/electrode material for the growth of highly oriented perovskite oxide thin films					<b>Manager:</b> Poppert, Elizabeth N.		
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>	



## Patents Listed by Inventor

Active Records Only

Patent Inventor(s): Gogotsi, Yury  
Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

**Inventor:** Gogotsi, Yury (continued)

**Tech ID:** 17-1979 (continued)      MXene layers as a versatile substrate/electrode material for the growth of highly oriented perovskite oxide thin films      **Manager:** Poppert, Elizabeth N.

<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>MXENE LAYERS AS SUBSTRATES FOR GROWTH OF HIGHLY ORIENTED PERKOVSKITE THIN FILMS</b>								
Bennett-Jackson, Andrew L. Gu, Zongquan Anasori, Babak Gogotsi, Yury Spanier, Jonathan E. (PI) Falmbigl, Matthias Imbrenda, Dominic	Provisional	Filed	US	62/572,818	10/16/2017		N/A	104889.000744

**Tech ID:** 17-1996      Anti-inflammatory nanodiamond aggregates      **Manager:** McGrath, Robert

<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Complexes And Methods Of Reducing Inflammation</b>								
Gogotsi, Yury Pentecost, Amanda E. Spiller, Kara L. (PI)	Utility	Filed	US	tbd	N/A		N/A	046528-7079

**Tech ID:** 17-2018      2D metal carbides and nitrides (MXenes) for implantable devices      **Manager:** Poppert, Elizabeth N.

<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>Implantable Devices Using 2D Metal Carbides and Nitrides (MXenes)</b>								
Maleski, Kathleen A. Driscoll, Nicolette Vitale, Flavia Litt, Brian Anasori, Babak Gogotsi, Yury (PI)	Provisional	Filed	US	62/559,315	9/15/2017		N/A	103241.006204

**Tech ID:** 17-2053      CHEMIREISTOR GAS SENSOR USING MXENE AND THE MANUFACTURING METHOD THEREOF      **Manager:** Poppert, Elizabeth N.

<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>CHEMIREISTOR GAS SENSOR USING MXENE AND THE MANUFACTURING METHOD THEREOF</b>								
Koh, Hyeong-Jun Kim, Seon Joon Jung, Hee-Tae Gogotsi, Yury (PI)	Nationalized PCT	Filed	KR	10-2017-0178063	12/22/2017		N/A	P170087

## Patents Listed by Inventor

Active Records Only

Patent Inventor(s): Gogotsi, Yury  
Patent Status(s): Filed, Issued, On Hold- Being Reviewed, Refile

Inventor: <b>Gogotsi, Yury (continued)</b>								
<b>Tech ID: 17-2053 (continued)</b>		CHEMIREซิสTOR GAS SENSOR USING MXENE AND THE MANUFACTURING METHOD THEREOF					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>CHEMIREซิสTOR GAS SENSOR USING MXENE AND THE MANUFACTURING METHOD THEREOF</b>								
Koh, Hyeong-Jun Kim, Seon Joon Jung, Hee-Tae Gogotsi, Yury (PI)	Utility	Filed	US	15/759,214	3/10/2018		N/A	PUS180014
<b>CHEMIREซิสTOR GAS SENSOR USING MXENE AND THE MANUFACTURING METHOD THEREOF</b>								
Koh, Hyeong-Jun Kim, Seon Joon Jung, Hee-Tae Gogotsi, Yury (PI)	PCT	Filed	WO	PCT/KR2018/00073 3	1/16/2018		N/A	X170018
<b>Tech ID: 17-2055</b>		ELECTROMAGNETIC SHIELDING MATERIAL AND METHOD FOR PRODUCING THE SAME					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>ELECTROMAGNETIC SHIELDING MATERIAL AND METHOD FOR PRODUCING THE SAME</b>								
Anasori, Babak Gogotsi, Yury (PI)	Provisional	Filed	US	62/564582	9/28/2017		N/A	
<b>Tech ID: 17-2056</b>		ALIGNED FILM AND METHOD FOR PRODUCING THE SAME					<b>Manager:</b> Poppert, Elizabeth N.	
<u>Patent Title / Inventors</u>	<u>Type</u>	<u>Status</u>	<u>Ctry</u>	<u>Serial No.</u>	<u>File Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Legal Ref No.</u>
<b>ALIGNED FILM AND METHOD FOR PRODUCING THE SAME</b>								
Anasori, Babak Gogotsi, Yury (PI)	Provisional	Filed	US	62/564589	9/28/2017		N/A	
<b>Total For Gogotsi, Yury:</b>								<b>46</b>

Total Patents: 46