

## NANOUP TAKE SYNTHESIZED NANOFLUIDS 05/2019

Location/ Institution	Country	Base Fluid	Nanoparticles	Surfactants	Synthesis technique	Contact e-mail
Aristotle University	Greece	Water	SiO <sub>2</sub>	sodium dodecyl sulfate-SDS		<a href="mailto:assael@auth.gr">assael@auth.gr</a> ; <a href="mailto:marc.assael@gmail.com">marc.assael@gmail.com</a>
Aristotle University	Greece	Therminol VP1	Al <sub>2</sub> O <sub>3</sub>	sodium dodecylbenzene sulfonate-SDBS		<a href="mailto:assael@auth.gr">assael@auth.gr</a> ; <a href="mailto:marc.assael@gmail.com">marc.assael@gmail.com</a>
Aristotle University	Greece	Therminol 66	Carbon black	Dodecyl sulphone		<a href="mailto:assael@auth.gr">assael@auth.gr</a> ; <a href="mailto:marc.assael@gmail.com">marc.assael@gmail.com</a>
Aristotle University	Greece	Thermal oils	CNTs	benzalkonium chloride- BAC		<a href="mailto:assael@auth.gr">assael@auth.gr</a> ; <a href="mailto:marc.assael@gmail.com">marc.assael@gmail.com</a>
Aristotle University	Greece	Molten salts	Sn	Triton X-100		<a href="mailto:assael@auth.gr">assael@auth.gr</a> ; <a href="mailto:marc.assael@gmail.com">marc.assael@gmail.com</a>
Aristotle University	Greece	Ethylene glycol	Sn/Pb alloy			<a href="mailto:assael@auth.gr">assael@auth.gr</a> ; <a href="mailto:marc.assael@gmail.com">marc.assael@gmail.com</a>
Aristotle University	Greece	Tetraethylene glycol	Al/Cu Alloy			<a href="mailto:assael@auth.gr">assael@auth.gr</a> ; <a href="mailto:marc.assael@gmail.com">marc.assael@gmail.com</a>
Lund University	Sweden	Water	Al <sub>2</sub> O <sub>3</sub>	No surfactant	Commercial	<a href="mailto:bengt.sunden@energy.lth.se">bengt.sunden@energy.lth.se</a> ; <a href="mailto:zan.wu@energy.lth.se">zan.wu@energy.lth.se</a>
Lund University	Sweden	Water/Ethylene glycol 50:50 weight ratio	Graphene nanoplatelet	Triton X-100	Two-step method	<a href="mailto:bengt.sunden@energy.lth.se">bengt.sunden@energy.lth.se</a> ; <a href="mailto:zan.wu@energy.lth.se">zan.wu@energy.lth.se</a>
Lund University	Sweden	Water	Multi-walled CNTs	Sodium dodecylbenzenesulfonate	Commercial	<a href="mailto:bengt.sunden@energy.lth.se">bengt.sunden@energy.lth.se</a> ; <a href="mailto:zan.wu@energy.lth.se">zan.wu@energy.lth.se</a>
Lund University	Sweden	Transformer oil	Fe <sub>3</sub> O <sub>4</sub>	Oleic acid	Two-step method	<a href="mailto:bengt.sunden@energy.lth.se">bengt.sunden@energy.lth.se</a> ; <a href="mailto:zan.wu@energy.lth.se">zan.wu@energy.lth.se</a>
Lund University	Sweden	Ionic liquids	Boron nitride; Al <sub>2</sub> O <sub>3</sub> ; MgO	To be decided later		<a href="mailto:bengt.sunden@energy.lth.se">bengt.sunden@energy.lth.se</a> ; <a href="mailto:zan.wu@energy.lth.se">zan.wu@energy.lth.se</a>
Naitec	Spain	Polyolester	AL <sub>2</sub> O <sub>3</sub>	anionic polymeric dispersant	Two-step method	<a href="mailto:jesarte@naitec.es">jesarte@naitec.es</a>
Naitec	Spain	Polyolester	TiO <sub>2</sub>	active polymeric dispersant	Two-step method	<a href="mailto:jesarte@naitec.es">jesarte@naitec.es</a>
Naitec	Spain	Polyolester	Cu	anionic polymeric dispersant	Two-step method	<a href="mailto:jesarte@naitec.es">jesarte@naitec.es</a>
Naitec	Spain	Polyolester	CuO	anionic polymeric dispersant	Two-step method	<a href="mailto:jesarte@naitec.es">jesarte@naitec.es</a>
Technical University "Gheorghe Asachi" from Iasi	Romania	Water	SiO <sub>2</sub>		Two-step method	<a href="mailto:aminea@tuiasi.ro">aminea@tuiasi.ro</a>
Technical University "Gheorghe Asachi" from Iasi	Romania	Water	Al <sub>2</sub> O <sub>3</sub>	citrate	Two-step method	<a href="mailto:aminea@tuiasi.ro">aminea@tuiasi.ro</a>

Technical University "Gheorghe Asachi" from Iasi	Romania	Water	TiO <sub>2</sub>		Two-step method	<a href="mailto:aminea@tuiasi.ro">aminea@tuiasi.ro</a>
Technical University "Gheorghe Asachi" from Iasi	Romania	Water	Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>		Two-step method	<a href="mailto:aminea@tuiasi.ro">aminea@tuiasi.ro</a>
Technical University "Gheorghe Asachi" from Iasi	Romania	Water	Al <sub>2</sub> O <sub>3</sub> + SiO <sub>2</sub>		Two-step method	<a href="mailto:aminea@tuiasi.ro">aminea@tuiasi.ro</a>
Universidade de Vigo	Spain	PEG (different M <sub>w</sub> )	Ag, Au, GnP		Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade de Vigo	Spain	n-C14	MgO	Span 80	Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade de Vigo	Spain	PureTemp 8	MgO, GnP	Acetic acid	Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade de Vigo	Spain	Water	GnP		Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade de Vigo	Spain	Ethylene glycol	GnP		Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade de Vigo	Spain	Propylene glycol	GnP		Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade de Vigo	Spain	Ethylene glycol:water mixtures	GnP	sodium dodecylbenzene sulfonate-SDBS	Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade de Vigo	Spain	Propylene glycol:water mixtures	GnP		Two-step method	<a href="mailto:luis.lugo@uvigo.es">luis.lugo@uvigo.es</a>
Universidade Lisboa / Faculdade Ciências	Portugal	water	Ru, TiO <sub>2</sub> , Graphene	None		<a href="mailto:cacastro@fc.ul.pt">cacastro@fc.ul.pt</a>
Universidade Lisboa / Faculdade Ciências	Portugal	Ionic Liquids	MWCNT's, Graphene	None		<a href="mailto:cacastro@fc.ul.pt">cacastro@fc.ul.pt</a>
Universitat de Barcelona	Spain	Molten salts	SiO <sub>2</sub>	none	Two-step method	<a href="mailto:c.barreneche@ub.edu">c.barreneche@ub.edu</a>
Universitat de Barcelona	Spain	NaNO <sub>3</sub>	SiO <sub>2</sub>	none	Two-step method	<a href="mailto:c.barreneche@ub.edu">c.barreneche@ub.edu</a>
Universitat de Barcelona	Spain	KNO <sub>3</sub>	SiO <sub>2</sub>	none	Two-step method	<a href="mailto:c.barreneche@ub.edu">c.barreneche@ub.edu</a>
Universitat de Barcelona	Spain	Fatty acids	SiO <sub>2</sub>	none	Two-step method	<a href="mailto:c.barreneche@ub.edu">c.barreneche@ub.edu</a>
Universitat de Barcelona	Spain	Fatty acids	CuO	octanoic acid	Two-step method	<a href="mailto:c.barreneche@ub.edu">c.barreneche@ub.edu</a>
Universitat Jaume I	Spain	Water	SiO <sub>2</sub> ;Al <sub>2</sub> O <sub>3</sub> ;CNTs;Carbon Black;GO;Au		Two-step method	<a href="mailto:mondrag@uji.es">mondrag@uji.es</a>
Universitat Jaume I	Spain	Therminol VP1	Carbon black	Dodecyl sulphone;sodium dodecyl sulfate-SDS;sodium dodecylbenzene sulfonate-SDBS	Two-step method	<a href="mailto:mondrag@uji.es">mondrag@uji.es</a>

Universitat Jaume I	Spain	Therminol VP1	Au	Tetraoctylammonium bromide TOAB	Two-step method	<a href="mailto:mondrag@uji.es">mondrag@uji.es</a>
Universitat Jaume I	Spain	Therminol 66	Carbon black;Sn;Sn-Pb alloy	Oleic Acid/benzalkonium chloride- BAC	Two-step method	<a href="mailto:mondrag@uji.es">mondrag@uji.es</a>
Universitat Jaume I	Spain	Molten salts	SiO2;Al2O3;Al;Al-Cu Alloy;Al-Mg Alloy		Two-step method	<a href="mailto:mondrag@uji.es">mondrag@uji.es</a>
Universitat Jaume I	Spain	Ethylene glycol	Sn		Two-step method	<a href="mailto:mondrag@uji.es">mondrag@uji.es</a>
Universitat Jaume I	Spain	Water	Au	none	Pulsed laser ablation in liquids (PLAL)	<a href="mailto:gminguez@uji.es">gminguez@uji.es</a>
Universitat Jaume I	Spain	Therminol VP1	Au	Tetraoctylammonium bromide TOAB	Pulsed laser ablation in liquids (PLAL)	<a href="mailto:gminguez@uji.es">gminguez@uji.es</a>
Universitat Jaume I	Spain	Water	Ag	citrate	Pulsed laser ablation in liquids (PLAL)	<a href="mailto:gminguez@uji.es">gminguez@uji.es</a>
Universitat Jaume I	Spain	Polyethylene Glycol	C dots	none	Pulsed laser ablation in liquids (PLAL)	<a href="mailto:gminguez@uji.es">gminguez@uji.es</a>
Universitat Jaume I	Spain	Water	C	SDS	Pulsed laser ablation in liquids (PLAL)	<a href="mailto:gminguez@uji.es">gminguez@uji.es</a>
Universitat Jaume I	Spain	Ethylene glycol	Sn		Pulsed laser ablation in liquids (PLAL)	<a href="mailto:gminguez@uji.es">gminguez@uji.es</a>
Université Rennes 1	France	Water	MWCNT	SDBS/Lignin/Sodium Polycarboxylate	Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Water & Tyfocor LS (commercial mixture of water/propylene glycol)	Functionalized MWCNT		Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Water & Tyfocor LS (commercial mixture of water/propylene glycol)	Purified MWCNT	Triton X100	Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Water	CuO		Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Water	Al2O3	Unknown (commercial nanofluids)	Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Water & Tyfocor LS (commercial mixture of water/propylene glycol)	GO /rGO		Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Water	TiO2		Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	EG	Nitride		Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Thermal oil	Boron Nitride NTs	Triton X100	Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
Université Rennes 1	France	Water	Boron Nitride NTs	Triton X100	Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>

Université Rennes 1	France	EG	graphite/diamonds		Two-step method	<a href="mailto:patrice.estelle@univ-rennes1.fr">patrice.estelle@univ-rennes1.fr</a>
University of Birmingham	United Kingdom	Water	BN		Two-step method	<a href="mailto:H.Navarro@bham.ac.uk">H.Navarro@bham.ac.uk</a>
University of Birmingham	United Kingdom	Water	rGO		Two-step method	<a href="mailto:H.Navarro@bham.ac.uk">H.Navarro@bham.ac.uk</a>
University of Birmingham	United Kingdom	Molten salts	SiO <sub>2</sub>		Two-step method	<a href="mailto:H.Navarro@bham.ac.uk">H.Navarro@bham.ac.uk</a>
University of Birmingham	United Kingdom	Water	Al <sub>2</sub> O <sub>3</sub>		Two-step method	<a href="mailto:H.Navarro@bham.ac.uk">H.Navarro@bham.ac.uk</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Water	SWCNT; Cu; Ag; BNNTs; GO	TRX-100, Ascorbic acid	two step method	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Dowtherm A	Cu, Ni, Ag, Au, Pt	Ethylene Glycol; TOAB; DDA; DDA+ODT; TRX100;	two step method	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Dowtherm A	Au	TOAB	one step method: reduction reaction in a non polar medium	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Dowtherm A	NiO, TiO <sub>2</sub> , CuFe <sub>2</sub> O <sub>4</sub> , CuO	PEG200, BAC; ODT; BAC+ODT; Oleic Acid	two step method	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Dowtherm A	TiO <sub>2</sub>	benzyl alcohol	one step method: solvothermal reaction in absence of water	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Dowtherm A	MoSe <sub>2</sub> ; WS <sub>2</sub> ; MoS <sub>2</sub> ; WSe <sub>2</sub> ; GO	ODT; PEG; CTAB; TRX100;	one step method: Liquid phase exfoliation method	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Dowtherm A	BNNTs	TRX100	two step method	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>
Facultad de Ciencias/ Universidad de Cádiz	Spain	Ethylene Glycol	Ni	PEG400	one step method: reduction reaction	<a href="mailto:javier.navas@uca.es">javier.navas@uca.es</a>



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