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	2007-09 2011-06	/	
	2011-08 2016-03	/	
	2015-12 2017-02		
		STRAIN EFFECTS ON SEMICONDUCTING TWO-DIMENSIONAL CRYSTALS	
		Yu Ting	

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< D ; D*¬=f Í>35è,Ã>÷*Û+^0...Dô+e1f3ì6½< Dæ+FDBAÇ(...+e
 Bx0´55Añ1V+n D,5Aû,A)D,_4"/Ð>: ÍBŽ> AÇ(...fD#,Ã.f; @Š
 (Ž6 D 1t/.0Á1t*Û>x+eBÿ8É6½< DæAÇ(...? ?µ/MA' D:p;W1,œ
 (Ž6 AÇ(...<Â.J4IA D7+~1{,_> 'Ì+)<Æ)%4p6½*Û1, Z+eAñ?^Í
 ,É Ü Ê>35è+eBŽ> 3Ž5].f88@q2 1s; 4l+FDB3Ž:•AÇ(...2êA5;
 8 6 6»C', +e (:šDô6,,/MA' Í) =l.ž-ÀAÇ(...>ã (3Ž5]- +e7•
 4r9~, -æC', 6,,; ;ìD90Ó) ?µ+e1f* D*¬=f Í7•4r/T4^D7 (
 Dô6,,; ,5AÇ+e:C:....f? ?µ8 C',p? ? /Æ*šD Í2êA5Aä3•2 9~
 +y9~, 2 DB9,? ÍCf> 1™A) @q2 .ž,*1';U4"E /Ð/0>PB»)
 =M(€B-;7?µ>ã2@Añ+e<1, >P3Í/Ð@H<1?µ*Ó>ã4l0 *, Ü Ê)*Aä
 BŽ> AÇ(...> 9 3Ž5].f88,É,5/;4xB»AÇ(...>ã+e:šDô<1?µ1™?±4l
 ? >Û+e@q2,Ã>÷@y8 6 =fC', +e \$, 6,,; ,5@y- ;7?®(€B-,p
 ? +e3Ž:•AÇ(...,è)Ä6 -± Í,Y@y8 6 6»C', +e % / . \$, 6,,; A8
 ;=@y2C)p?®(€B-,p? +e3Ž:•AÇ4GAÑ? D>35è+e5ý,),Û/ 3Í5<
 0š< 1,œ9 * +y>õ; +FDBAÇ(...,5/;4x1,.Z?µ6½+e-Ø? AM?µE
 Aä Í=(5á+y1f;.4lAÇ(...>ã:šDô8 5+,5/;4x2 <Æ9,? +e>õDYA!
 3-?µ D,5CfD7/ 0Û+e-Ø? AM?µ<1?µB»AÇ(...>ã+e@q2 0 > >35è
 1™A) <ž2 /;4x+eAÇÄ*Ó>ã0Â; +e0 *, D
 :p;W@q2 1,œ0':•4l>35è,5Aû,_> 'Ì+)<Æ2 <ÆB»AÇ(...>ã
 0 *,?µD++e3Í1f Í) > 2Ë,ÃCfA 3Á?£?¬)%4pB»9Â?µ.f+^8X0ß
 +i,p6 +eAÇÄä+•, 4l0Â; +e0 *, D

1					
1	Tailoring Electronic and Phononic Structure of Atomically Thin Two-Dimensional Materials for Nanoelectronic, Photonic and Optoelectronic Applications	The National Research Foundation, Singapore	300	2010-2015	
2	Platform for hybrid 2D materials/biomaterials devices for optoelectronic applications	Ministry of Education, Singapore	9	2013-2015	
2					
				/	
1	Raman spectroscopy study of lattice vibration and crystallographic orientation of monolayer MoS₂ under uniaxial strain	Small	8.315	2013/9/2857-2861	1
2	Strain-induced direct-indirect bandgap transition and phonon modulation in monolayer WS₂	Nano Res.	8.893	2015/8/2562-2572	1
3	Remarkable Anisotropic Phonon Response in Uniaxially Strained Few-layer Black Phosphorus	Nano Res.	8.893	2015/8/3944-3953	1
4	Electrically Tunable Valley-Light Emitting Diode (vLED) Based on CVD-Grown Monolayer WS₂	Nano Lett.	13.779	2016/16/1560-1567	9
5	Thermal conductivity determination of suspended mono- and bilayer WS₂ by Raman spectroscopy	Nano Res.	8.893	2015/8/1210-1221	4
6	Surfactant-assisted encapsulation of uniform SnO₂ nanoparticles in graphene layers for high-performance Li-storage	2D Mater.	9.611	2015/2/014005	5

7	Encapsulation of sulfur with thin-layered nickel-based hydroxides for long-cyclic lithium–sulfur cells	Nat. Commun.	11.329	2015/6/8622	5
8	Supramolecular Polymerization Promoted In Situ Fabrication of Nitrogen-Doped Porous Graphene Sheets as Anode Materials for Li-Ion Batteries	Adv. Energy Mater.	15.230	2015/5/1500559	5
9	Chemically engineered graphene oxide as high performance cathode materials for Li-ion batteries	Carbon	6.198	2014/76/148-154	5
10	Facile fabrication of hierarchical ZnCo ₂ O ₄ /NiO core/shell nanowire arrays with improved lithium-ion battery performance	Nanoscale	7.760	2014/6/6563-6568	5
11	Microwave-assisted solvothermal preparation of nitrogen and sulfur co-doped reduced graphene oxide and graphene quantum dots hybrids for highly efficient oxygen reduction	J. Mater. Chem. A	8.262	2014/2/20605-20611	6
12	Redox-crosslinked graphene networks with enhanced electrochemical capacitance	J. Mater. Chem. A	8.262	2014/2/12924-12930	7
13	Seed-assisted synthesis of Co ₃ O ₄ @-Fe ₂ O ₃ core–shell nanoneedle arrays for lithium-ion battery anode with high capacity	RSC Adv.	3.289	2014/4/13241–13249	4
14	Three-Dimensional Co ₃ O ₄ @MnO ₂ Hierarchical Nanoneedle Arrays: Morphology Control and Electrochemical Energy Storage	Adv. Funct. Mater.	11.382	2014/24/3815-3826	3
15	Chemically Driven Tunable Light Emission of Charged and Neutral Excitons in Monolayer WS ₂	ACS Nano	13.334	2014/8/11320–11329	5

	16	Mechanical Exfoliation and Characterization of Single- and Few-Layer Nanosheets of WSe ₂ , TaS ₂ , and TaSe ₂	Small	8.315	2013/9/1974-1981	3
	3					
			/	/		
	4					
	1	Nano Research Paper of the Month Award			2015	1
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<p>1. WS₂</p> <p style="text-align: right;">WS₂</p> <p style="text-align: right;">WS₂ :(1)</p> <p style="text-align: center;">;(2)</p> <p>2.</p> <p style="text-align: center;">ReS₂ TiS₃</p>						

