Supporting Information

Facile synthesis of nanosized nickel phosphides with controllable phase and morphology

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Table S1 Viscosity of the solvent at room temperature.

<table>
<thead>
<tr>
<th>Solvent</th>
<th>MeOH</th>
<th>EtOH</th>
<th>EG</th>
<th>GL</th>
<th>DEG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity (mpa·s)</td>
<td>0.580</td>
<td>1.17</td>
<td>22.1</td>
<td>1412</td>
<td>35.7</td>
</tr>
</tbody>
</table>

Figure S1 SEM images of red phosphor.

Figure S2 Binary phase diagram of nickel phosphides synthesized by using NiCl₂·6H₂O as the nickel source.
Figure S3 Binary phase diagram of nickel phosphides synthesized by using NiSO₄·6H₂O as the nickel source.

Figure S4 Binary phase diagram of nickel phosphides synthesized by using Ni(CH₃COO)₂·4H₂O as the nickel source.
Figure S5 Binary phase diagram of nickel phosphides synthesized by using Ni(NO$_3$)$_2$·6H$_2$O as the nickel source.