```
•Ù{Ç<0e±0 SPECTER: Document-level Representation Learning using Citation-informed
Transformers0 cĐQúN†N yĺe°v,,yÑ[fe‡s.e‡hc~§^hy:[fN`e¹lÕSPECTERÿ • •Ç~ÓT ~,<-~Ãv,,Transformer<í
### **1. x zv€ÌfoN R"g:**
- **•**ÿ s°g vৣ¯"‹-~Ãヾ́íŠ j!W⟨ÿ Y,BERTÿ N;‰•"ˆ[ù⟨ĺb Så[P~§NûR¡ÿ •:NO[ùe‡hc•ôQs€Tÿ Y,_ u(Qs|ûÿ v,
- **vîh **ÿ N:yÑ[fe‡s.‹¾‹¡N yÍ• u(v"e‡hc]LQee¹lÕÿ • u(NŽR |{0 c"fP{IN n8NûR;ÿ N eà— NûR;ry[šv"_®
### **2. e¹IÕÿ SPECTERj!W<**
- **h8_Ã` `ó**ÿ R)u(e‡s.v,**_ u(Vþ**O\N:e‡hcvøQs`'v,,vÑwcOáS÷ÿ • •ÇN QC~Äc_Y1ÿ triplet lossÿ ~,<-
 - **•"Qe**ÿ NÅ— e‡s.v,,**h ~~TŒdX‰•**ÿ eà— Qhe‡b _ u(Oá`oÿ 0
 - **‹-~Ãvîh **ÿ O•_ u(Qs|ûv,e‡s.[ùÿ kch7g,ÿ v,]LQefôc¥•Ñÿ —^_ u([ùÿ • h7g,ÿ fô•Üy»0
 - **• h7g,{Vue**ÿ ~ÓT -•g:• h7g,TŒ"Vð-¾• h7g,"ÿ ^«kch7g,_ u(OFg*^«gå‹âe‡s._ u(v,,‹ºe‡ÿ 0
- **j!W(g¶g,**ÿ WúNŽSciBERTR YËS ÿ • •Ç_ u(Vþ~, <-~Ãu b e‡hc]LQe0
### **3. •!s.N R e°**
1. **eà—_®Œ v,,• u(]LQe**ÿ SPECTERu b v,,]LQeSïvôc¥u(NŽN n8NûR;ÿ Y,R |{0 c"fPÿ ÿ eà— ~•Y <-~
2. **e° (ÄO0WúQÆSCIDOCS**ÿ S T+7N*e‡hc~§NûR¡ÿ Y,R |{0 _ u(~,mK0 u(b7^LN:~,mK{Iÿ ÿ c"R"~†Wí
3. **`'€ýO R¿**ÿ W(SCIDOCSN f>,,WO NŽWú~¿j!W⟨ÿ Y,SciBERT0 Citeomatic0 SGC{Iÿ ÿ ^sWG`'€ýcE
### **4. [žšŒ~Ógœ**
- **NûR; hs°**ÿ
 - **R |\{\hat{N}\hat{u}R_i^*,\hat{v}\} MeSH/MAGÿ ÿ F1cÐSG2.3/1.5p^10
 - **_ u(~,mK**\ddot{y} vôc\ddot{y}_ u(TŒQq_ u(N\hat{u}R_{\dot{i}}v,nDCGR R+•^3494.8TŒ94.90
 - **u(b7^LN:~,mK**ÿ QqmO%,È/Qq- <ûÿ ÿ MAPcÐSG2.7/4.0p10
 - **c"fP|û~ß**ÿ W(~¿A/BmK‹Õp¹Qûs‡cĐSG46.5%0
- **Sï‰ÆS R g•**ÿ SPECTERv,,]LQezz•ô€ýfôY}cUf·N;~vøQs`'ÿ Y,]åz 0 ep[f0 ⟨¡{—g:yÑ[f€Z|{}'[Æÿ 0
### **5.\@-P`'**
- **•"Qe–PR6**ÿ NÅO•u(h ~~TŒdX‰•ÿ g*R)u(Qhe‡ÿ VàepcnSïf·SÖ`'TŒj!W‹•"Qe••^¦–PR6ÿ 0
- **g*gee¹T **ÿ c¢}"fôY'~, <-~Ãj!W⟨ÿ Y,XLNetÿ 0 Y NûR¡[fN`0 QvNÖe‡s.Qs€TOáS÷ÿ Y,QqO\€ ÿ 0
### **6. •Dn•SÑ^ **
- _ n•Nãx 0 ~, <-~Âj!W<SÊSCIDOCSWúQÆepcn-Æÿ T+u(b7p¹Qûeå_x0 R |{h {~{Iÿ ÿ O•ÛT ~íx zv0}
```

Qs•.~Ó^{,0} SPECTER• •Ç_ u(Oá`oXž_:Transformerv,,e‡hc^hy:€ýR>ÿ W(yÑ[fe‡s.Y t NûR¡N-[žs°N†šØeH0 • u(v,,`'€